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Service Manual

ORDER NO.
RRV3703

SOUND & VISION MIXER

SVM-1000

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
SVM-1000	WAXJ5	AC 220 V to 240 V	

This service manual should be used together with the following manual(s):

Model No.	Order No.	Remarks
SVM-1000 / KUCXJ	RRV3678	

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
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PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*
- *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*
- *Nos. indicate the pages and Nos. in the service manual for the base model.*

1.1 CONTRAST TABLE

SVM-1000/WYXJ5 and SVM-1000/WAXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Part No.		Remarks
			SVM-1000 /WYXJ5	SVM-1000 /WAXJ5	
		PACKING SECTION			
⚠	P57- 1	AC Power Cord	ADG7062	ADG7105	
	P57- 2	Operating Instructions	DRB1422	Not used	
		(English, French, German, Italian, Dutch Spanish, Russian)			
	P57- 2	Operating Instructions (Simp-Chinese, English)	Not used	DRB1424	
NSP	P57- 4	Warranty Card (WY)	ARY7107	Not used	
	P57- 9	Packing Case	DHG2718	DHG2722	
NSP	P57-11	Caution Sheet	DRM1305	Not used	
		BOTTOM SECTION			
NSP	P61-46	Rear Panel	DNC1820	DNC1839	
NSP		CCC S&E Label	Not used	DRW2310	

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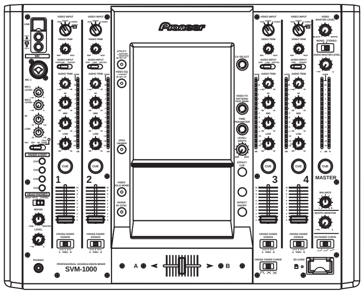
Service Manual


SVM-1000

ORDER NO.
RRV3678

SOUND & VISION MIXER

SVM-1000

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
SVM-1000	KUCXJ	AC 120 V	
SVM-1000	WYXJ5	AC 220 V to 240 V	
SVM-1000	TLXJ	AC 110 V to 240 V	

For details, refer to "Important Check Points for good servicing".

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SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols ▭ (fast operating fuse) and/or ⊠ (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible ▭ (fusible de type rapide) et/ou ⊠ (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

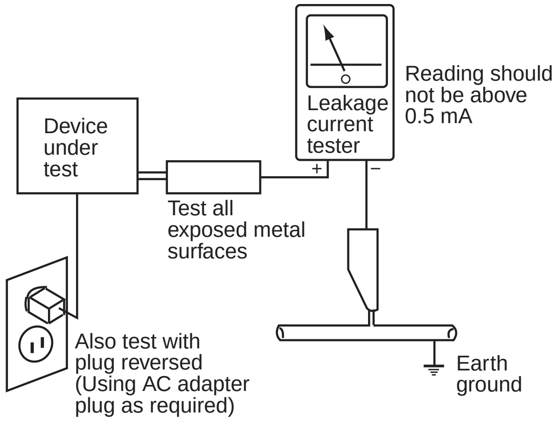
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Reading should not be above 0.5 mA
Leakage current tester
+
−
Device under test
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

(FOR USA MODEL ONLY)

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

The backlighting lamp of LCD in this equipment contains mercury. Disposal of this material may be regulated due to environmental considerations according to Local, State or Federal Laws. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

2. SPECIFICATIONS

2.1 ACCESSORIES

● Accessories

- Operating Instructions
  (KUCXJ: DRB1421)
  (WYXJ5: DRB1422)
  (TLXJ: DRB1423)
- Power Cord
  (KUCXJ : DDG1028)
  (WYXJ5 : ADG7062)
  (TLXJ : ADG7062)
- Warranty Card

2.2 SPECIFICATIONS

1 General

Power source	
KUCXJ model	AC 120 V, 60 Hz
TLXJ model	AC 110 V to 240 V, 50 Hz/60 Hz
WYXJ5 model	AC 220 V to 240 V, 50 Hz/60 Hz
Power consumption	58 W
Operating temperature	+5 °C to +35 °C
Operating humidity	5 % to 85 % (without condensation)
Weight	12.7 kg
Maximum dimensions	500 mm (W) x 202.4 mm (H) x 420.6 mm (D)

2 Audio section

Sampling rate	96 kHz
A/D, D/A converter	24 bits
Frequency response	
DVD/LINE	20 Hz to 20 kHz
MIC	20 Hz to 20 kHz
PHONO	20 Hz to 20 kHz (RIAA)
S/N ratio (at rated output)	
DVD/LINE	105 dB
PHONO	96 dB
MIC	89 dB
Distortion (LINE-MASTER 1)	0.005 %
Standard input level/Input impedance	
PHONO	–52 dBu/47 kΩ
MIC 1,	–52 dBu/9 kΩ
DVD/LINE	–12 dBu/22 kΩ
Standard output level/Load impedance/Output impedance	
MASTER 1	+8 dBu/10 kΩ/10 Ω or less
MASTER 2	+2 dBu/10 kΩ/1 kΩ or less
REC OUT	–8 dBu/10 kΩ/1 kΩ or less
BOOTH MONITOR	+8 dBu/600 Ω/600 Ω or less
PHONES	+7.5 dBu/32 Ω/22 Ω or less
Rated output level/Load impedance	
MASTER 1	+26 dBu/10 kΩ
MASTER 2	+20 dBu/10 kΩ
Crosstalk (DVD/LINE)	89 dB
Channel equalizer response	
HI	–26 dB to +6 dB (13 kHz)
MID	–26 dB to +6 dB (1 kHz)
LOW	–26 dB to +6 dB (70 Hz)
Microphone equalizer response	
HI	–12 dB to +12 dB (10 kHz)
LOW	–12 dB to +12 dB (100 Hz)

3 Video Section

Input signal	NTSC/ PAL (selectable)
Sampling rate	13.5 MHz, 8 bit, ITU-R BT.656, YCrCb 4:2:2
Input connector (sensitivity/impedance)	
Composite	1 Vp-p/75 Ω
S (Brightness)	1 Vp-p/75 Ω
S (Color)	0.286 Vp-p/75 Ω
Video output connector (Level/Impedance)	
Composite	1 Vp-p/75 Ω
S (Brightness)	1 Vp-p/75 Ω
S (Color)	0.286 Vp-p/75 Ω
Component Y	1 Vp-p/75 Ω
Component Cb/Cr	0.7 Vp-p/75 Ω

4 Input/output connector systems

Audio section

PHONO input connectors	
RCA pin jacks	2
DVD/LINE input connectors	
RCA pin jacks	2
DVD input connectors	
RCA pin jacks	2
LINE input connectors	
RCA pin jacks	2
MIC input connectors	
XLR connector/Phone jack (Ø 6.3 mm)	1
Phone jack (Ø 6.3 mm)	1
DIGITAL coaxial input connectors	
RCA pin jacks	2
MASTER output connectors	
XLR connectors	1
RCA pin jacks	1
BOOTH output connectors	
Phone jack (Ø 6.3 mm)	1
REC output connectors	
RCA pin jacks	1
DIGITAL coaxial output connector	
RCA pin jack	1
PHONES output connector	
Stereo phone jack (Ø6.3 mm)	1

Video Section

DVD input connectors	
Composite input, RCA pin jacks	4
VIDEO input connectors	
Composite input, RCA pin jacks	4
VIDEO EX input connectors	
Composite input, RCA pin jacks	2
S-VIDEO input connectors	
S-Video input, S-connectors	4
MASTER output connectors	
Component output, BNC connector	1
Composite output, BNC connector	1
RCA pin jack	1
S-Video output, S-connector	1
MONITOR output connectors	
Composite output, RCA pin jack	1
S-Video output, S-connector	1

OTHER

MIDI OUT connector	
5P-DIN	1
USB	1
CONTROL connector	
Mini phone jacks (Ø 3.5 mm)	4

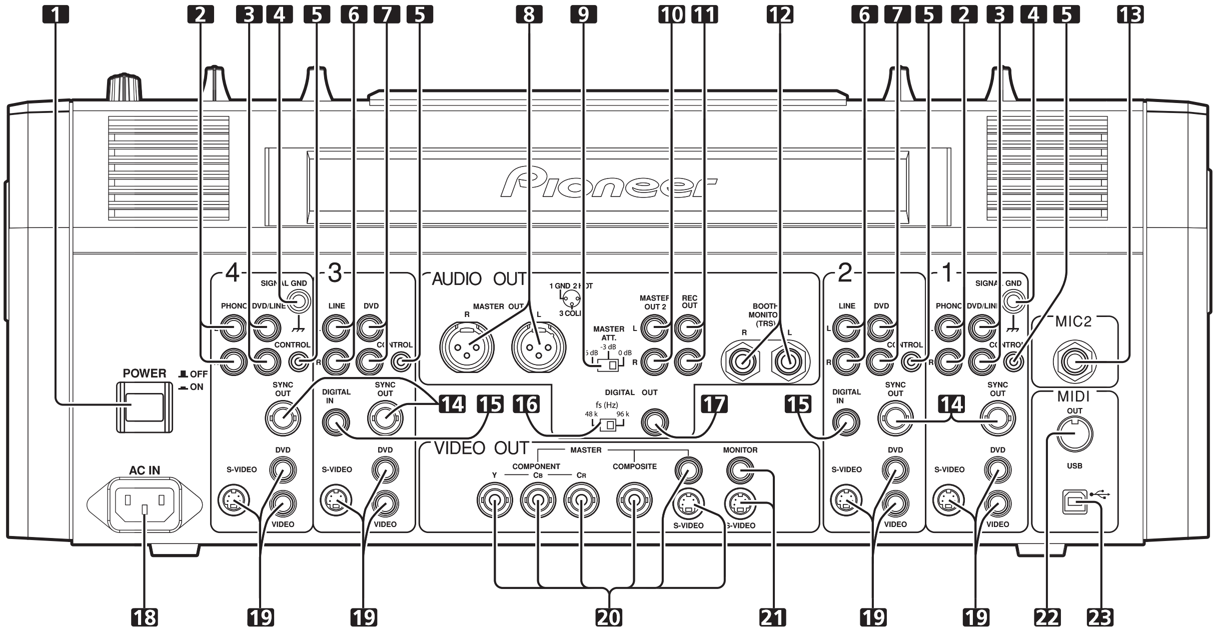
5 Accessories

Power cord	1
Warranty card	1
(Except SVM-1000/TLXJ)	
Operating Instructions	1

Specifications and appearance are subject to change without notice.

2.3 PANEL FACILITIES

CONNECTION PANEL



1 POWER switch

2 PHONO input connectors
RCA type phono level (MM cartridge) input connectors.
Do not use for inputting line level signals.

3 DVD/LINE input connectors
RCA type line level audio input connectors.
Use to connect a DJ/VJ DVD player or DJ CD player or other line level output component.

4 Signal ground terminal (SIGNAL GND)
Connect the ground wire from an analog turntable.

This is not a safety ground terminal.

5 CONTROL connector
Connect the Ø 3.5 mm mini phone plug of the control cable from a DJ/VJ DVD player or DJ CD player.

When this is done, this mixer's fader controls can be used to perform start and back-cue functions on the connected DJ/VJ DVD player or DJ CD player.

6 LINE input connectors
RCA type line level audio input connectors.
Use to connect a cassette deck or other line level output component.

7 DVD input connectors
RCA type line level audio input connectors.
Use to connect a DJ/VJ DVD player or DJ CD player or other line level output component.

8 Audio master output 1 connectors (MASTER OUT 1)
XLR type (male) balanced output.

- When using a cord with RCA-type plug, users are recommended to connect the plug directly to the **MASTER OUT 2** connectors without using an XLR/RCA converter plug.
  When a conversion plug is used, the signal GND may become unstable, in rare cases resulting in the production of noise.

9 Audio master output attenuator selector (MASTER ATT.)
Attenuates the output level of the audio master 1 and audio master 2.
Attenuation level can be selected as 0 dB, –3 dB, or –6 dB.

10 Audio master output 2 connectors (MASTER OUT 2)
RCA-type unbalanced output.

11 Recording output connectors (REC OUT)
RCA type output connectors for recording.

12 BOOTH MONITOR output jacks (TRS)
Ø 6.3 mm phone-type booth monitor output jacks.

The sound level output at these connectors can be controlled by the **BOOTH MONITOR** level dial, regardless of the setting of the **MASTER LEVEL** dial. (Since the output is TRS, both balanced and unbalanced outputs are supported.)

13 Microphone 2 input jack (MIC 2)
Connect microphones equipped with phone-type plug.

14 Sync signal output connector (SYNC OUT)
Outputs video sync signal.

When connecting a Pioneer DJ/VJ DVD player (sold separately), the sync signal helps suppress any lag between video and audio signals.

15 Digital input connector (DIGITAL IN)
RCA-type digital coaxial input connector. Connect to the digital coaxial output connector from a DJ/VJ DVD player or DJ CD player.

- If the sampling frequency of the output signal changes, the sound may be interrupted briefly.

16 Sampling frequency selector switch (fs 48 k/96 k)
Use to set the sampling frequency of the digital output to 96 kHz/24-bit format or 48 kHz/24-bit format.

Turn power off before changing this switch position.

17 Digital output connector (DIGITAL OUT)
RCA type digital coaxial output connector.
Master audio digital output.

18 Power inlet (AC IN)
Use the furnished power cable to connect to a household AC outlet.

19 Video input connectors (DVD, VIDEO, S-VIDEO)
Composite and S-VIDEO type video input connectors.

20 Video master output connectors (MASTER: COMPONENT, COMPOSITE, S-VIDEO)
Component, composite, and S-VIDEO type video output connectors.

21 Video monitor output connectors (MONITOR, S-VIDEO)
Composite and S-VIDEO type monitor video output connectors.

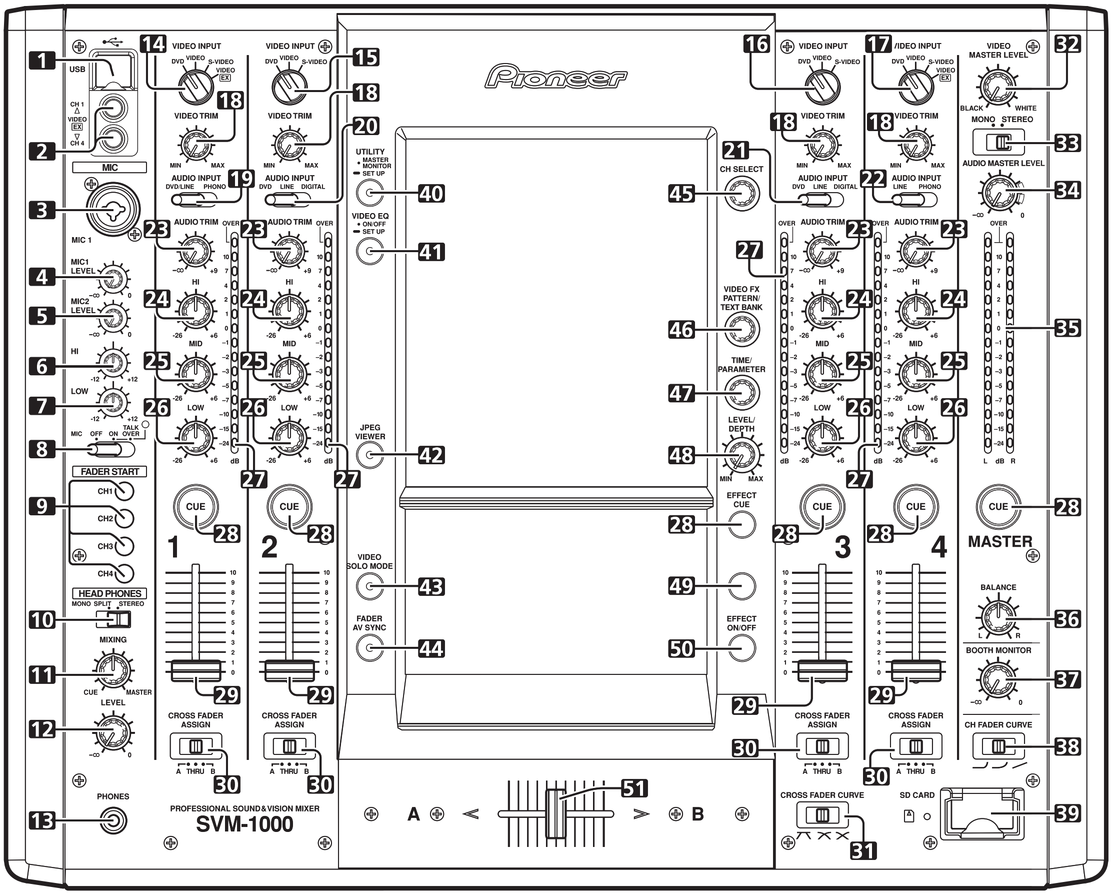
22 MIDI OUT connector

DIN type output connector.
Use to connect to other MIDI component.

23 MIDI USB output connector

USB-B type output connector. Use to connect to a computer.

OPERATION PANEL


1
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8
9
10
11
12
13
USB
CH 1
VIDEO
EX
CH 4
MIC
MIC 1
MIC1 LEVEL
MIC2 LEVEL
HI
LOW
-12
+12
MIC OFF ON TALK OVER
FADER START
CH1
CH2
CH3
CH4
HEAD PHONES
MONO SPLIT STEREO
MIXING
CUE MASTER
LEVEL
PHONES
14
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32
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50
51
VIDEO INPUT
DVD VIDEO S-VIDEO VIDEO EX
VIDEO TRIM
MIN MAX
AUDIO INPUT
DVD/LINE PHONO
DVD LINE DIGITAL
LINE PHONO
AUDIO TRIM
OVER
HI
MID
LOW
dB
CUE
1
2
3
4
CROSS FADER ASSIGN
A THRU B
PROFESSIONAL SOUND&VISION MIXER
SVM-1000
Pioneer
UTILITY
MASTER MONITOR
SET UP
VIDEO EQ
ON/OFF
SET UP
JPEG VIEWER
VIDEO SOLO MODE
FADER AV SYNC
A
B
CH SELECT
VIDEO FX PATTERN/ TEXT BANK
TIME/ PARAMETER
LEVEL/ DEPTH
EFFECT CUE
EFFECT ON/OFF
CROSS FADER CURVE
SD CARD
VIDEO MASTER LEVEL
BLACK WHITE
MONO STEREO
AUDIO MASTER LEVEL
L dB R
MASTER
BALANCE
L R
BOOTH MONITOR
CH FADER CURVE

1 USB connector

Use to connect a USB memory or keyboard.

2 CH1/CH4 video input connectors (VIDEO EX)

Use to input video from an external source.

3 Microphone 1 input jack (MIC 1)

Connect microphone with XLR-type or phone-type plug.

4 Microphone 1 level control dial (MIC 1 LEVEL)

Use to adjust the volume of microphone 1. (Adjustable range –∞ to 0 dB)

5 Microphone 2 level control dial (MIC 2 LEVEL)

Use to adjust the volume of microphone 2. (Adjustable range –∞ to 0 dB)

6 Microphone equalizer high-range adjust dial (HI)

Use to adjust the treble (high-range) frequencies of microphones 1 and 2. (Adjustable range –12 dB to +12 dB)

7 Microphone equalizer low-range adjust dial (LOW)

Use to adjust the bass (low-range) frequencies of microphones 1 and 2. (Adjustable range –12 dB to +12 dB)

8 Microphone function selector switch (MIC)

OFF:
No microphone sound is output.

ON:
Microphone sounds are output, and the microphone function indicator lights.

TALK OVER:
Microphone sounds are output, and the microphone function indicator flashes.

When an audio signal of –15 dB or more (default setting) is input to the microphone input, the talkover function operates to reduce all output other than the mike audio by 20 dB (default setting).

Values can be changed in the hardware setup

- When not using the TALK OVER function, it is recommended to set the switch to the [**OFF**] or [**ON**] position.

9 FADER START button/indicator (CH-1 to CH-4)

Enables the fader start/back cue function for the channel to which a DJ/VJ DVD player or DJ CD player is connected. The button lights when set to ON. When enabled, the operation differs depending on the setting of the **CROSS FADER ASSIGN** switch.

- When the **CROSS FADER ASSIGN** switch is set to the [**A**] or [**B**] position, **FADER START** button operation is linked to the operation of the cross fader (and unlinked to channel fader).
- When the **CROSS FADER ASSIGN** switch is set to the [**THRU**] position, **FADER START** button operation is linked to the operation of the channel fader (and unlinked to cross fader).

10 HEADPHONES output switch (MONO SPLIT/STEREO)

MONO SPLIT:
The source sound selected with the headphone **CUE** button is output to the L channel, while the master sound is output to the R channel (only when [**MASTER**] is selected with the headphone **CUE** button).

STEREO:
The audio source selected with the headphone **CUE** button is output in stereo.

11 HEADPHONES MIXING dial

When rotated clockwise (toward [**MASTER**]), the master output audio is produced at the headphones (only when [**MASTER**] has been selected with the headphone **CUE** button); when rotated counterclockwise (toward [**CUE**]), the headphones output becomes the mixture of the effect monitor and the channel selected with the headphone **CUE** button.

12 HEADPHONES LEVEL adjust dial

Adjusts the output level of the headphones jack. (Adjustable range: –∞ to 0 dB)

13 Headphones jack (PHONES)

14 Channel 1 VIDEO INPUT selector switch

Set to [**DVD**], [**VIDEO**], [**S-VIDEO**], or [**VIDEO EX**] to match the type of input connected.

15 Channel 2 VIDEO INPUT selector switch

Set to [**DVD**], [**VIDEO**], or [**S-VIDEO**] to match the type of input connected.

16 Channel 3 VIDEO INPUT selector switch

Set to [**DVD**], [**VIDEO**], or [**S-VIDEO**] to match the type of input connected.

17 Channel 4 VIDEO INPUT selector switch

Set to [**DVD**], [**VIDEO**], [**S-VIDEO**], or [**VIDEO EX**] to match the type of input connected.

18 VIDEO TRIM dial

Use to adjust the level of the video input signal for each channel.

- When rotated counterclockwise, the luminance level is reduced, eventually producing a black screen.
- When rotated clockwise, the luminance level is raised, eventually producing a white screen.
- At the center position, the luminance level is neutral (same level as input).

19 Channel 1 AUDIO INPUT selector switch

DVD/LINE:
Use to select **DVD/LINE** input connectors (line level analog input).

PHONO:
Use to select **PHONO** input connectors (analog turntable input).

20 Channel 2 AUDIO INPUT selector switch

DVD:
Use to select **DVD** input connectors.

LINE:
Use to select **LINE** input connectors (line level analog input).

DIGITAL:
Use to select **DIGITAL** input connector.

21 Channel 3 AUDIO INPUT selector switch

DVD:
Use to select **DVD** input connectors.

LINE:
Use to select **LINE** input connectors (line level analog input).

DIGITAL:
Use to select **DIGITAL** input connector.

22 Channel 4 AUDIO INPUT selector switch

DVD/LINE:

Use to select **DVD/LINE** input connectors (line level analog input).

PHONO:

Use to select **PHONO** input connectors (analog turntable input).

23 AUDIO TRIM dial

Use to adjust the level of the audio input signal for each channel. (Adjustable range: –∞ to +9 dB, mid-position is about 0 dB)

24 Channel equalizer high-range adjust dial (HI)

Use to adjust the treble (high-range) frequency sound for each channel. Video parameters can also be assigned.
(Adjustable range: –26 dB to +6 dB)

25 Channel equalizer mid-range adjust dial (MID)

Use to adjust the mid-range frequency sound for each channel. Video parameters can also be assigned.
(Adjustable range: –26 dB to +6 dB)

26 Channel equalizer low-range adjust dial (LOW)

Use to adjust the bass (low-range) frequency sound for each channel. Video parameters can also be assigned.
(Adjustable range: –26 dB to +6 dB)

27 Channel level indicator

Displays the current level for each channel, with two-second peak hold.

28 Headphone CUE buttons/indicators

These buttons are used to select from **1** to **4**, **MASTER**, or **EFFECT CUE**, to allow you to monitor the desired source through headphones. If multiple buttons are pressed simultaneously, the selected audio sources are mixed. Press the button once more to cancel the selected source. Unselected buttons glow darkly, while selected source buttons light brightly.

29 Channel fader lever

Use to adjust sound volumes and video level for each channel. (Volume adjust range: –∞ to 0 dB) (Video adjust range: 0 % to 100 %)
Output is in accordance with the channel fader curve selected with the **CH FADER CURVE** switch.
When FADER AV SYNC function is OFF, only sound volume can be adjusted.

30 CROSS FADER ASSIGN switch

This switch assigns each channel's output to either right or left side of the cross fader (if multiple channels are assigned to the same side, the result will be the combined sum of the channels).

A:
The selected channel is assigned to the cross fader's [**A**] (left) side.

THRU:
The channel fader's output is sent as is to the master output, without being passed through the cross fader.

B:
The selected channel is assigned to the cross fader's [**B**] (right) side.

31 CROSS FADER CURVE switch

This switch allows the user to select from three types of cross fader curve response.

Sound volume changes as follows:

- At the left setting, the curve produces a rapid signal rise. (As soon as the cross fader lever leaves the [**A**] side, the [**B**] channel sound is produced.)
- At the right setting, the curve operates to produce an even, neutral rise throughout the cross fader's movement.
- At the middle setting, an intermediate curve is produced, midway between the two curves noted above.

The video level is as noted above only when the video cross fader's video mix effect is set to [**FADE**].

32 Video master output level dial (VIDEO MASTER LEVEL)

Adjusts the video master output luminance level.

33 Master output MONO/STEREO selector switch

When set to the [**MONO**] position, audio master output is produced in L+R monaural.

34 Audio master output level dial (AUDIO MASTER LEVEL)

Use to adjust the master output level. (Adjustable range: –∞ to 0 dB)
The master output is the sum combination of the sound from channels set to [**THRU**] with the **CROSS FADER ASSIGN** switch; the signal passed through the cross fader; and the signals from microphone 1 and microphone 2.

35 Master level indicator (MASTER L, R)
These segment indicators display the audio output level from L and R channels. The indicators have a two-second peak hold.

36 Master balance dial (BALANCE)
Use to adjust the L/R channel balance for audio master output, booth monitor output, recording output, and digital output.

37 BOOTH MONITOR level control dial
This dial is used to adjust the booth monitor output volume.
The volume can be adjusted independently of the master output level. (Adjustable range: –∞ to 0 dB)

38 Channel fader curve switch (CH FADER CURVE)
This switch allows the user to select from three types of channel fader curve response.

The sound volume and video level changes as follows:
This setting is applied equally to channels 1 to 4.

- At the left setting, the curve operates to produce a rapid rise as the channel fader approaches its distant position.
- At the right setting, the curve operates to produce an even, neutral rise throughout the channel fader's movement.
- At the middle setting, an intermediate curve is produced, midway between the two curves noted above.

39 SD CARD slot
Insert an SD card.

40 UTILITY button (MASTER MONITOR, SET UP)
Switches between display / no display of the master monitor on the LCD. When the master monitor is set to display, the indicator lights. When the button is held depressed, the indicator changes to flashing, and the LCD screen changes to show the utility setup menu.

41 VIDEO EQ button (ON/OFF, SET UP)
Switches the video equalizer ON/OFF. The indicator lights when the video equalizer is ON. When the button is held depressed, the indicator flashes, and the LCD display changes to show the equalizer setup menu.

42 JPEG VIEWER button
Use to set the JPEG viewer mode. The indicator lights when in the JPEG viewer mode.

43 VIDEO SOLO MODE button
Use to switch the video solo mode ON/OFF. When the video solo mode is ON, the indicator will flash.

44 Fader AV synchro button (FADER AV SYNC)
This button determines whether sound and video are controlled together, or independently. When set to ON, the indicator lights, and the channel fader and cross fader operations change both sound and video simultaneously. When set to OFF, the channel fader and cross fader levers control sound only, while video is controlled by the touch panel.

45 Effect channel selector dial (CH SELECT)
Use to select the channel to which effects are applied. When [**MIC**] is selected, effects are applied to both microphone 1 and microphone 2.

46 VIDEO FX PATTERN/TEXT BANK dial
Use to select video effects, video effect patterns and text banks.

47 Effect parameter 1 dial (TIME/PARAMETER)
Adjusts parameter for selected effect.

- If this dial is rotated while depressing the **TAP** button, direct BPM can be set manually.

48 Effect parameter 2 dial (LEVEL/DEPTH)
Adjusts quantitative parameters for selected effect.

49 TAP button
The BPM is calculated from the intervals at which the **TAP** button is struck.

50 Effect button/indicator (EFFECT ON/OFF)
Turns selected effect ON/OFF.

When power is turned ON, the button lights (defaults to effect OFF). When effects are enabled (ON), the button flashes.

51 Cross fader lever (A/B)
This adjusts sound and video levels assigned to sides [**A**] and [**B**] in accordance with the **CROSS FADER ASSIGN** switches. When FADER AV SYNC is OFF, the control adjusts the sound only.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

To ensure the quality of the product after repair, check the recommended items shown below:

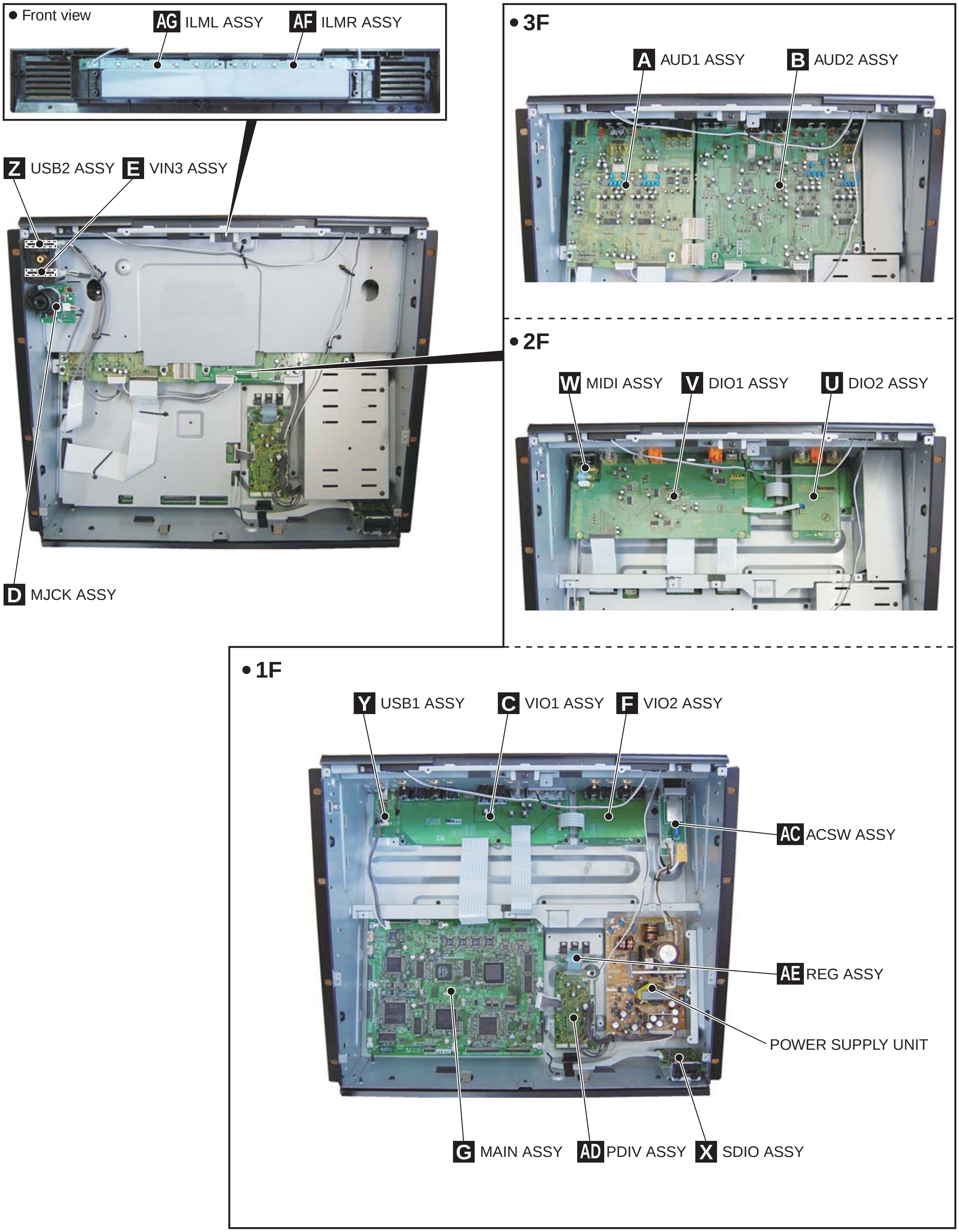
No.	Procedures	Item to be checked
1	Check if all the symptoms pointed out by the customer have been addressed.	The symptoms in question must not be reproduced. Audio and operations must be normal.
2	Check the analog audio inputs. (Make connections for analog audio signals with a DVD player.)	Check the output of Audio Master Out connector 1 from all input connectors. Check the outputs of the all output connectors from the CH1 input connector. Audio for each channel and operations must be normal.
3	Check the digital audio inputs. (Make connections for digital audio signals with a DVD player.)	Input digital signals to CH2 and CH3 and check if the output signals from the digital output connectors are normal. Audio for each channel and operations must be normal.
4	Check the video outputs. (Make connections with a DVD player.)	Check the output of the Video Master Out connectors from all input connectors. Check the outputs of the all output connectors from the CH1 input connector. Video and operations must be normal.
5	Check the audio from headphone output.	Audio must be normal, without noise.
6	Check the buttons.	Operate the buttons of the main unit, and check it operate normally.
7	Check the touch panel.	Calibration must be terminated.
8	Check the System Setting.	The video system must be appropriately set for the destination.
9	Check the contents of utility setup.	The content of utility setup must be the same as before the repair.
10	Check the exterior section.	Check for any scratches or dirt that have been made or attached on the exterior section after receiving the product for repair.

See the table below for the items to be checked regarding video and audio:

Item to be checked regarding video		Item to be checked regarding audio	
Block noise		Distortion	
Horizontal noise		Noise	
Dot noise		Volume too low	
Disturbed image (video jumpiness)		Volume too high	
Too dark		Volume fluctuating	
Too bright		Sound interrupted	
Mottled color			

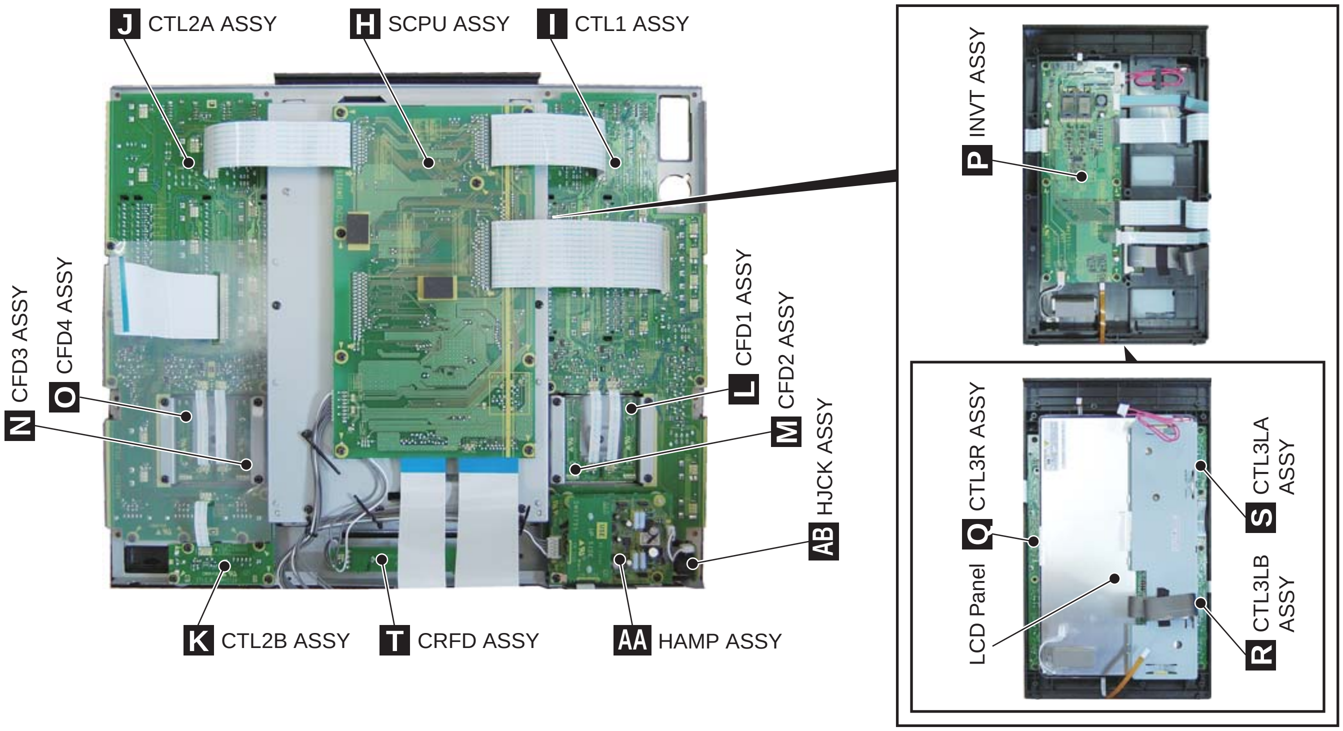
3.2 PCB LOCATION

Main Section


Front view
AG ILML ASSY
AF ILMR ASSY
Z USB2 ASSY
E VIN3 ASSY
D MJCK ASSY
3F
A AUD1 ASSY
B AUD2 ASSY
2F
W MIDI ASSY
V DIO1 ASSY
U DIO2 ASSY
1F
Y USB1 ASSY
C VIO1 ASSY
F VIO2 ASSY
AC ACSW ASSY
AE REG ASSY
POWER SUPPLY UNIT
G MAIN ASSY
AD PDIV ASSY
X SDIO ASSY

Operation Panel Section

- Bottom view


J CTL2A ASSY
H SCPU ASSY
I CTL1 ASSY
N CFD3 ASSY
O CFD4 ASSY
L CFD1 ASSY
M CFD2 ASSY
AB HJCK ASSY
K CTL2B ASSY
T CRFD ASSY
AA HAMP ASSY
P INVT ASSY
Q CTL3R ASSY
LCD Panel
S CTL3LA ASSY
R CTL3LB ASSY

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

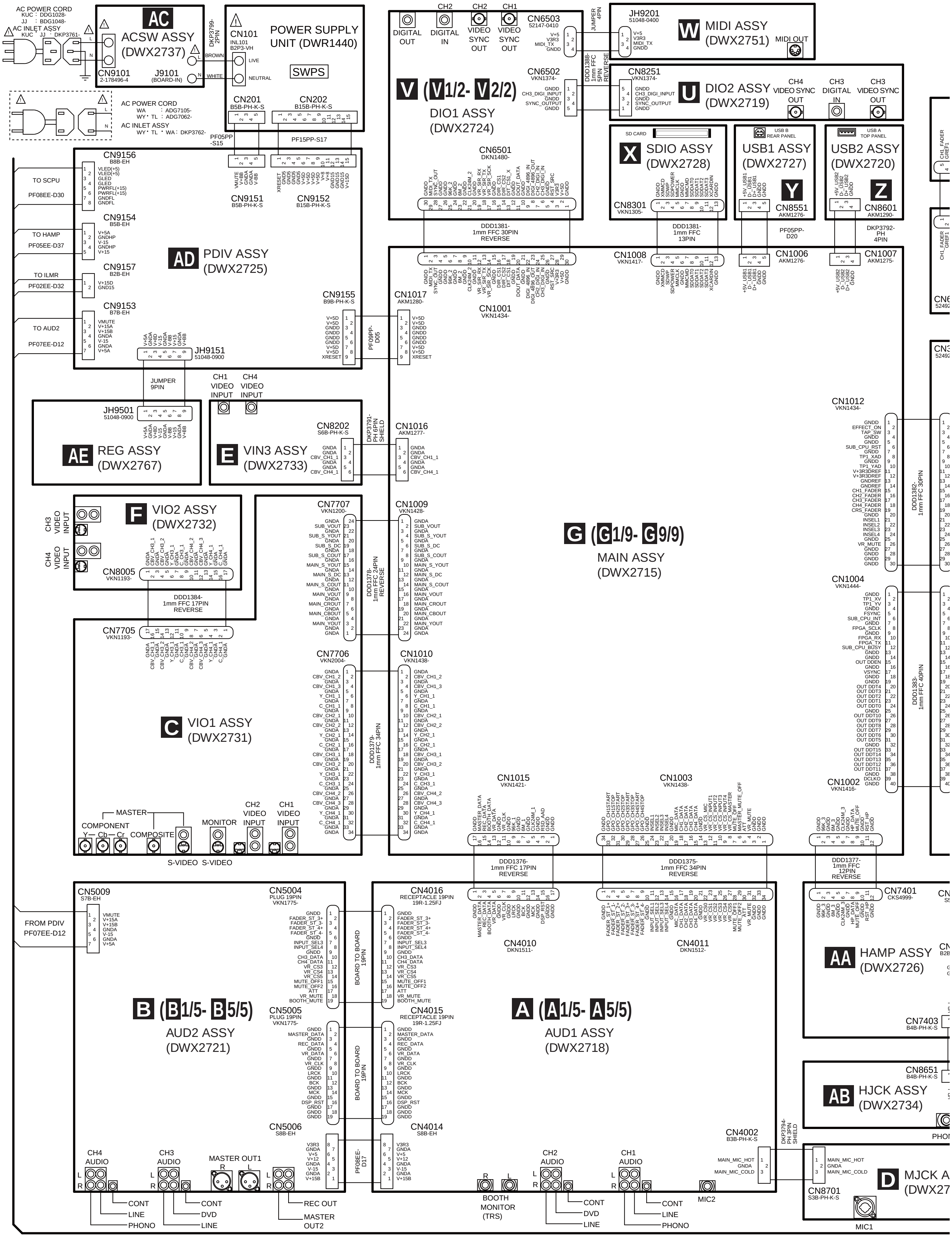
LIST OF ASSEMBLIES

Mark	No. Description	Part No.
	1..MAIN ASSY	DWX2715
NSP	1..SCIV ASSY	DWM2302
	2..SCPU ASSY	DWX2706
	2..INVT ASSY	DWX2717
NSP	1..AUDI ASSY	DWM2303
	2..AUD1 ASSY	DWX2718
	2..DIO2 ASSY	DWX2719
	2..USB1 ASSY	DWX2727
NSP	1..AUIL ASSY	DWM2304
	2..AUD2 ASSY	DWX2721
	2..ILMR ASSY	DWX2722
	2..ILML ASSY	DWX2723
NSP	1..DIHP ASSY	DWM2305
	2..USB2 ASSY	DWX2720
	2..DIO1 ASSY	DWX2724
	2..PDIV ASSY	DWX2725
	2..HAMP ASSY	DWX2726
	2..SDIO ASSY	DWX2728
	2..MIDI ASSY	DWX2751
	2..REG ASSY	DWX2767
	2..COVER PCB	DWX2793

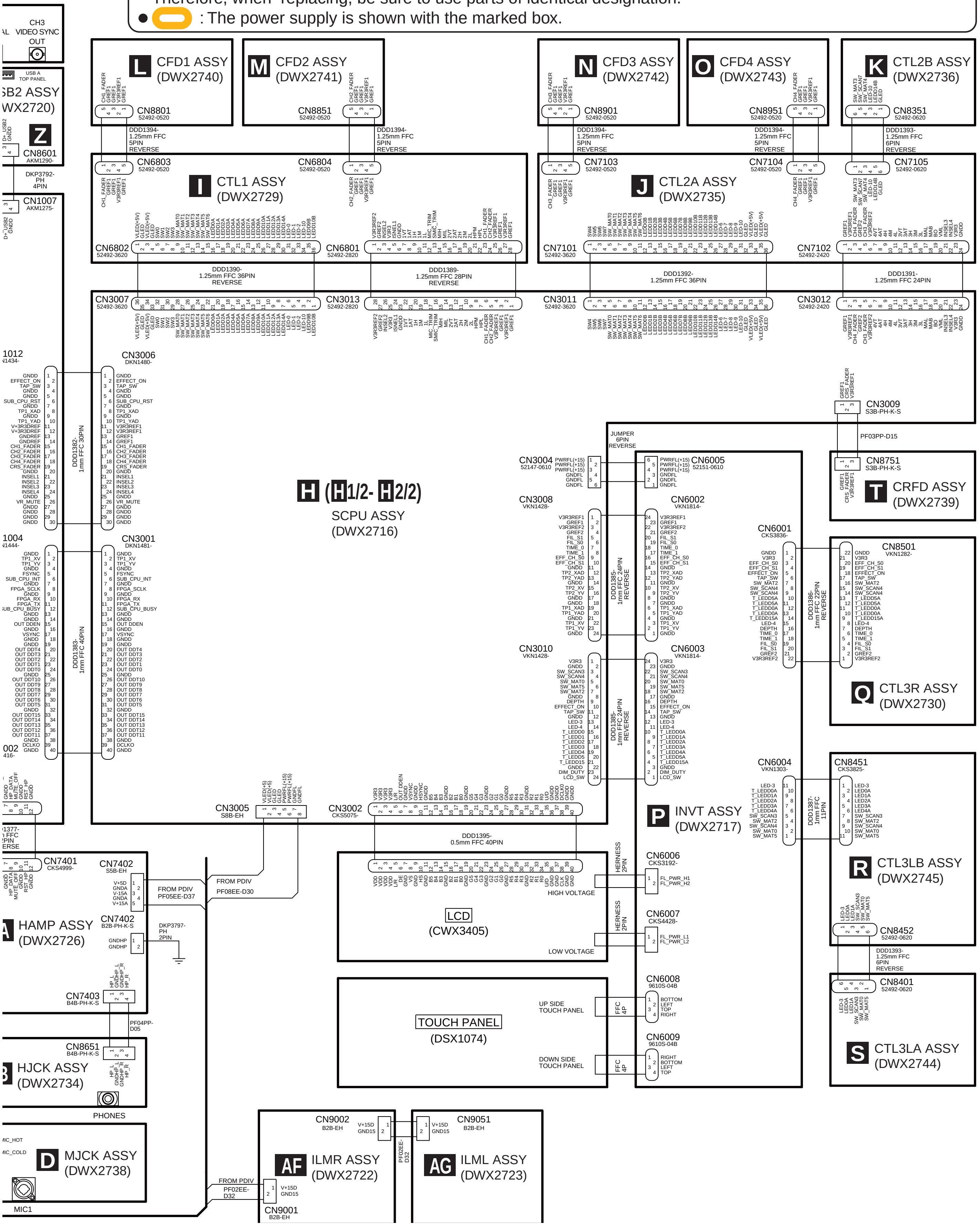
Mark	No. Description	Part No.
NSP	1..CTVI ASSY	DWM2306
	2..CTL1 ASSY	DWX2729
	2..CTL3R ASSY	DWX2730
	2..VIO1 ASSY	DWX2731
	2..VIO2 ASSY	DWX2732
	2..VIN3 ASSY	DWX2733
	2..HJCK ASSY	DWX2734
NSP	1..CTFD ASSY	DWM2307
	2..CTL2A ASSY	DWX2735
	2..CTL2B ASSY	DWX2736
	2..ACSW ASSY	DWX2737
	2..MJCK ASSY	DWX2738
	2..CRFD ASSY	DWX2739
	2..CFD1 ASSY	DWX2740
	2..CFD2 ASSY	DWX2741
	2..CFD3 ASSY	DWX2742
	2..CFD4 ASSY	DWX2743
	2..CTL3LA ASSY	DWX2744
	2..CTL3LB ASSY	DWX2745
⚠	1..POWER SUPPLY UNIT	DWR1440
⚠	1..LCD Panel	CWX3405

4. BLOCK DIAGRAM

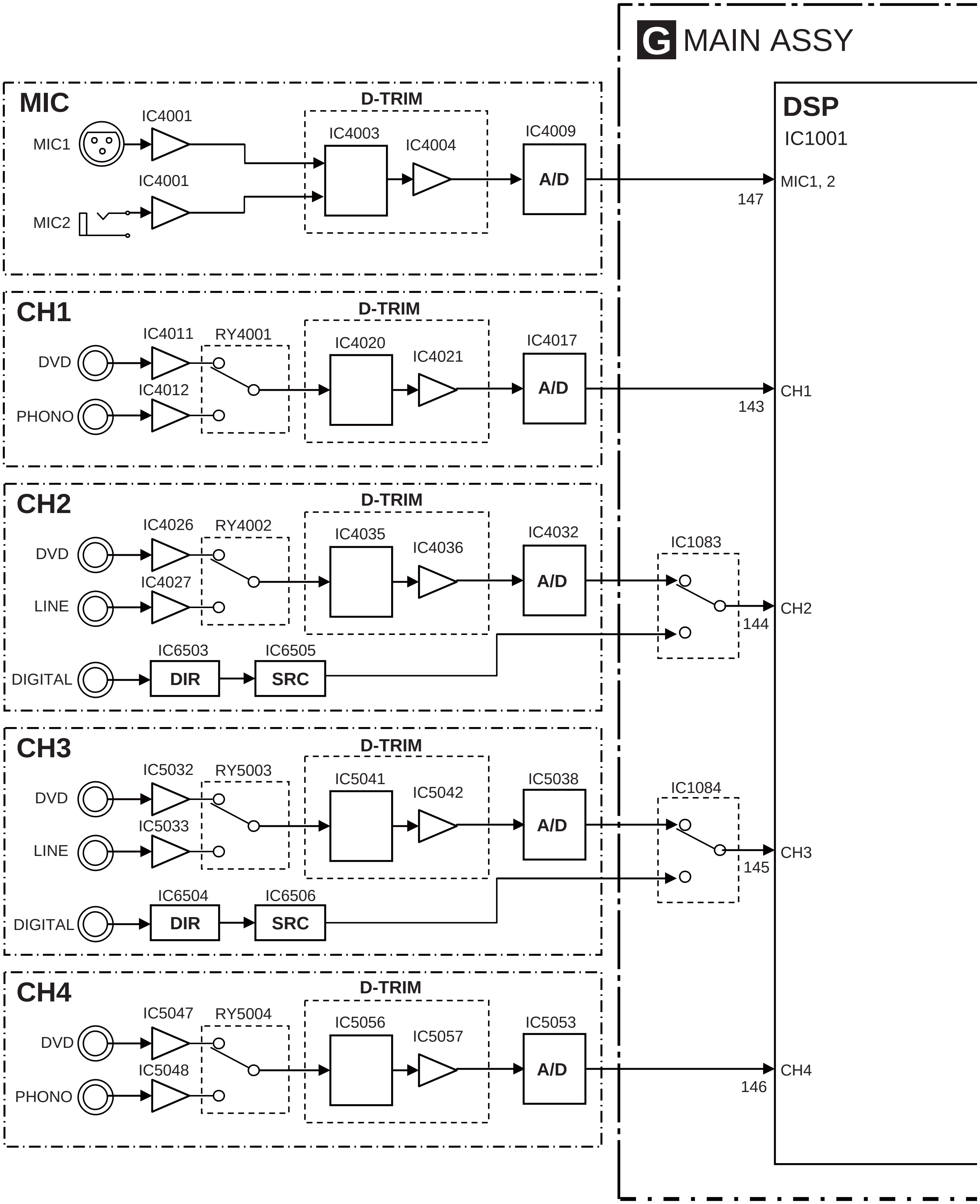
4.1 OVERALL WIRING DIAGRAM

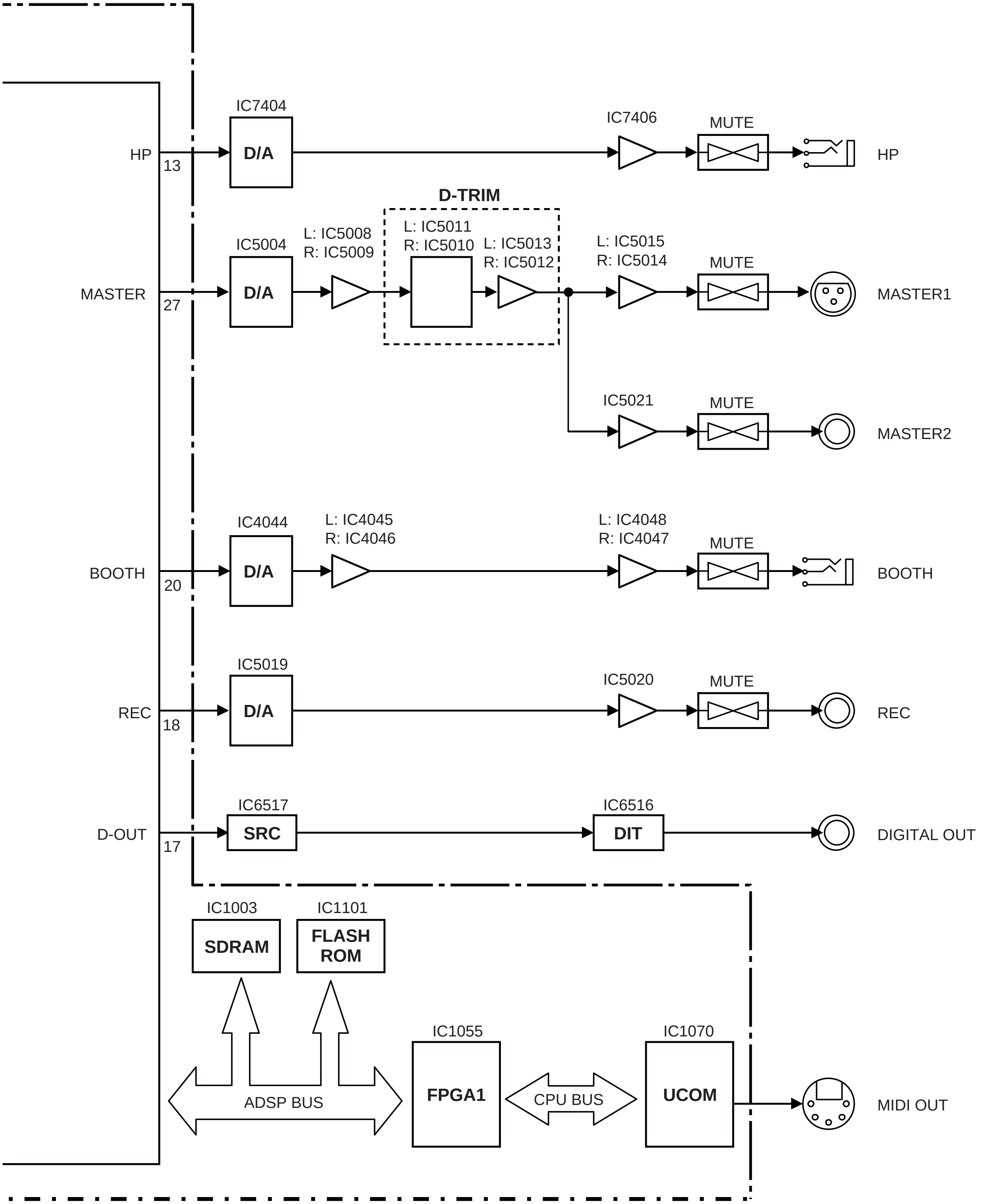

AC POWER CORD
KUC : DDG1028-
JJ : BDG1048-
AC INLET ASSY
KUC JJ : DKP3761-
AC
ACSW ASSY
(DWX2737)
CN9101
2-178496-4
J9101
(BOARD-IN)
DKP3799-
2PIN
BROWN
WHITE
CN101
INL101
B2P3-VH
LIVE
NEUTRAL
POWER SUPPLY
UNIT (DWR1440)
SWPS
CN201
B5B-PH-K-S
CN202
B15B-PH-K-S
AC POWER CORD
WA : ADG7105-
WY・TL : ADG7062-
AC INLET ASSY
WY・TL・WA : DKP3762-
PF05PP
-S15
PF15PP-S17
CH2
DIGITAL
OUT
CH2
DIGITAL
IN
CH2
VIDEO
SYNC
OUT
CH1
VIDEO
SYNC
OUT
CN6503
52147-0410
JUMPER
4PIN
JH9201
51048-0400
W
MIDI ASSY
(DWX2751)
MIDI OUT
V
(V1/2- V2/2)
DIO1 ASSY
(DWX2724)
CN6502
VKN1374-
DDD1388-
1mm FFC
5PIN
REVERSE
CN8251
VKN1374-
U
DIO2 ASSY
(DWX2719)
CH4
VIDEO SYNC
OUT
CH3
DIGITAL
IN
CH3
VIDEO SYNC
OUT
CN6501
DKN1480-
SD CARD
X
SDIO ASSY
(DWX2728)
USB B
REAR PANEL
USB1 ASSY
(DWX2727)
USB A
TOP PANEL
USB2 ASSY
(DWX2720)
Y
Z
CN8301
VKN1305-
CN8551
AKM1276-
CN8601
AKM1290-
CN9156
B8B-EH
TO SCPU
PF08EE-D30
CN9151
B5B-PH-K-S
CN9152
B15B-PH-K-S
DDD1381-
1mm FFC 30PIN
REVERSE
DDD1381-
1mm FFC
13PIN
PF05PP-
D20
DKP3792-
PH
4PIN
CN9154
B5B-EH
TO HAMP
PF05EE-D37
AD
PDIV ASSY
(DWX2725)
CN1008
VKN1417-
CN1006
AKM1276-
CN1007
AKM1275-
CN9157
B2B-EH
TO ILMR
PF02EE-D32
CN9155
B9B-PH-K-S
CN1017
AKM1280-
CN1001
VKN1434-
CN9153
B7B-EH
TO AUD2
PF07EE-D12
PF09PP-
D05
JH9151
51048-0900
JUMPER
9PIN
CH1
VIDEO
INPUT
CH4
VIDEO
INPUT
JH9501
51048-0900
CN8202
S6B-PH-K-S
DKP3791-
PH 6PIN
SHIELD
CN1016
AKM1277-
CN1012
VKN1434-
AE
REG ASSY
(DWX2767)
E
VIN3 ASSY
(DWX2733)
DDD1382-
1mm FFC 30PIN
F
VIO2 ASSY
(DWX2732)
CH3
VIDEO
INPUT
CH4
VIDEO
INPUT
CN8005
VKN1193-
CN7707
VKN1200-
CN1009
VKN1428-
DDD1378-
1mm FFC 24PIN
REVERSE
G
(G1/9- G9/9)
MAIN ASSY
(DWX2715)
CN1004
VKN1444-
DDD1384-
1mm FFC 17PIN
REVERSE
CN7705
VKN1193-
CN7706
VKN2004-
CN1010
VKN1438-
DDD1383-
1mm FFC 40PIN
C
VIO1 ASSY
(DWX2731)
DDD1379-
1mm FFC 34PIN
CN1015
VKN1421-
CN1003
VKN1438-
CN1002
VKN1416-
MASTER
COMPONENT
Y Cb Cr
COMPOSITE
MONITOR
CH2
VIDEO
INPUT
CH1
VIDEO
INPUT
S-VIDEO S-VIDEO
DDD1376-
1mm FFC 17PIN
REVERSE
DDD1375-
1mm FFC 34PIN
REVERSE
DDD1377-
1mm FFC
12PIN
REVERSE
CN5009
S7B-EH
FROM PDIV
PF07EE-D12
CN5004
PLUG 19PIN
VKN1775-
CN4016
RECEPTACLE 19PIN
19R-1.25FJ
BOARD TO BOARD
19PIN
CN4010
DKN1511-
CN4011
DKN1512-
CN7401
CKS4999-
AA
HAMP ASSY
(DWX2726)
B
(B1/5- B5/5)
AUD2 ASSY
(DWX2721)
CN5005
PLUG 19PIN
VKN1775-
CN4015
RECEPTACLE 19PIN
19R-1.25FJ
A
(A1/5- A5/5)
AUD1 ASSY
(DWX2718)
CN7403
B4B-PH-K-S
CN8651
B4B-PH-K-S
AB
HJCK ASSY
(DWX2734)
PHON
CN5006
S8B-EH
PF08EE-
D17
CN4014
S8B-EH
CN4002
B3B-PH-K-S
DKP3794-
PH 3PIN
SHIELD
MAIN_MIC_HOT
GNDA
MAIN_MIC_COLD
D
MJCK A
(DWX27
CN8701
S3B-PH-K-S
MIC1
CH4
AUDIO
CH3
AUDIO
MASTER OUT1
R L
CH2
AUDIO
CH1
AUDIO
MIC2
CONT
LINE
PHONO
CONT
DVD
LINE
REC OUT
MASTER
OUT2
BOOTH
MONITOR
(TRS)
CONT
DVD
LINE
CONT
LINE
PHONO

- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ▭ : The power supply is shown with the marked box.


CH3 VIDEO SYNC OUT
USB A TOP PANEL
B2 ASSY (WX2720)
Z
CN8601 AKM1290-
DKP3792- PH 4PIN
CN1007 AKM1275-
L CFD1 ASSY (DWX2740)
CN8801 52492-0520
M CFD2 ASSY (DWX2741)
CN8851 52492-0520
N CFD3 ASSY (DWX2742)
CN8901 52492-0520
O CFD4 ASSY (DWX2743)
CN8951 52492-0520
K CTL2B ASSY (DWX2736)
CN8351 52492-0620
DDD1394- 1.25mm FFC 5PIN REVERSE
DDD1393- 1.25mm FFC 6PIN REVERSE
I CTL1 ASSY (DWX2729)
CN6803 52492-0520
CN6804 52492-0520
CN6802 52492-3620
CN6801 52492-2820
J CTL2A ASSY (DWX2735)
CN7103 52492-0520
CN7104 52492-0520
CN7105 52492-0620
CN7101 52492-3620
CN7102 52492-2420
DDD1390- 1.25mm FFC 36PIN REVERSE
DDD1389- 1.25mm FFC 28PIN REVERSE
DDD1392- 1.25mm FFC 36PIN
DDD1391- 1.25mm FFC 24PIN
CN3007 52492-3620
CN3013 52492-2820
CN3011 52492-3620
CN3012 52492-2420
CN3006 DKN1480-
DDD1382- 1mm FFC 30PIN
CN3001 DKN1481-
DDD1383- 1mm FFC 40PIN
H (H1/2- H2/2) SCPU ASSY (DWX2716)
CN3009 S3B-PH-K-S
PF03PP-D15
CN8751 S3B-PH-K-S
T CRFD ASSY (DWX2739)
JUMPER 6PIN REVERSE
CN3004 52147-0610
CN6005 52151-0610
CN3008 VKN1428-
CN6002 VKN1814-
DDD1385- 1mm FFC 24PIN REVERSE
CN3010 VKN1428-
CN6003 VKN1814-
CN6001 CKS3836-
DDD1386- 1mm FFC 22PIN REVERSE
CN8501 VKN1282-
Q CTL3R ASSY (DWX2730)
CN6004 VKN1303-
DDD1387- 1mm FFC 11PIN
CN8451 CKS3825-
P INVT ASSY (DWX2717)
R CTL3LB ASSY (DWX2745)
CN3005 S8B-EH
CN3002 CKS5075-
DDD1395- 0.5mm FFC 40PIN
LCD (CWX3405)
HIGH VOLTAGE
LOW VOLTAGE
HERNESS 2PIN
CN6006 CKS3192-
CN6007 CKS4428-
FL_PWR_H1 FL_PWR_H2
FL_PWR_L1 FL_PWR_L2
CN8452 52492-0620
DDD1393- 1.25mm FFC 6PIN REVERSE
CN8401 52492-0620
S CTL3LA ASSY (DWX2744)
TOUCH PANEL (DSX1074)
UP SIDE TOUCH PANEL
DOWN SIDE TOUCH PANEL
FFC 4P
CN6008 9610S-04B
CN6009 9610S-04B
BOTTOM LEFT TOP RIGHT
RIGHT BOTTOM LEFT TOP
CN7401 CKS4999-
CN7402 S5B-EH
FROM PDIV PF05EE-D37
FROM PDIV PF08EE-D30
CN7402 B2B-PH-K-S
DKP3797- PH 2PIN
A HAMP ASSY (DWX2726)
CN7403 B4B-PH-K-S
PF04PP-D05
CN8651 B4B-PH-K-S
B HJCK ASSY (DWX2734)
PHONES
MIC_HOT
MIC_COLD
D MJCK ASSY (DWX2738)
MIC1
CN9002 B2B-EH
V+15D GND15
PF02EE-D32
CN9051 B2B-EH
AF ILMR ASSY (DWX2722)
AG ILML ASSY (DWX2723)
FROM PDIV PF02EE-D32
CN9001 B2B-EH

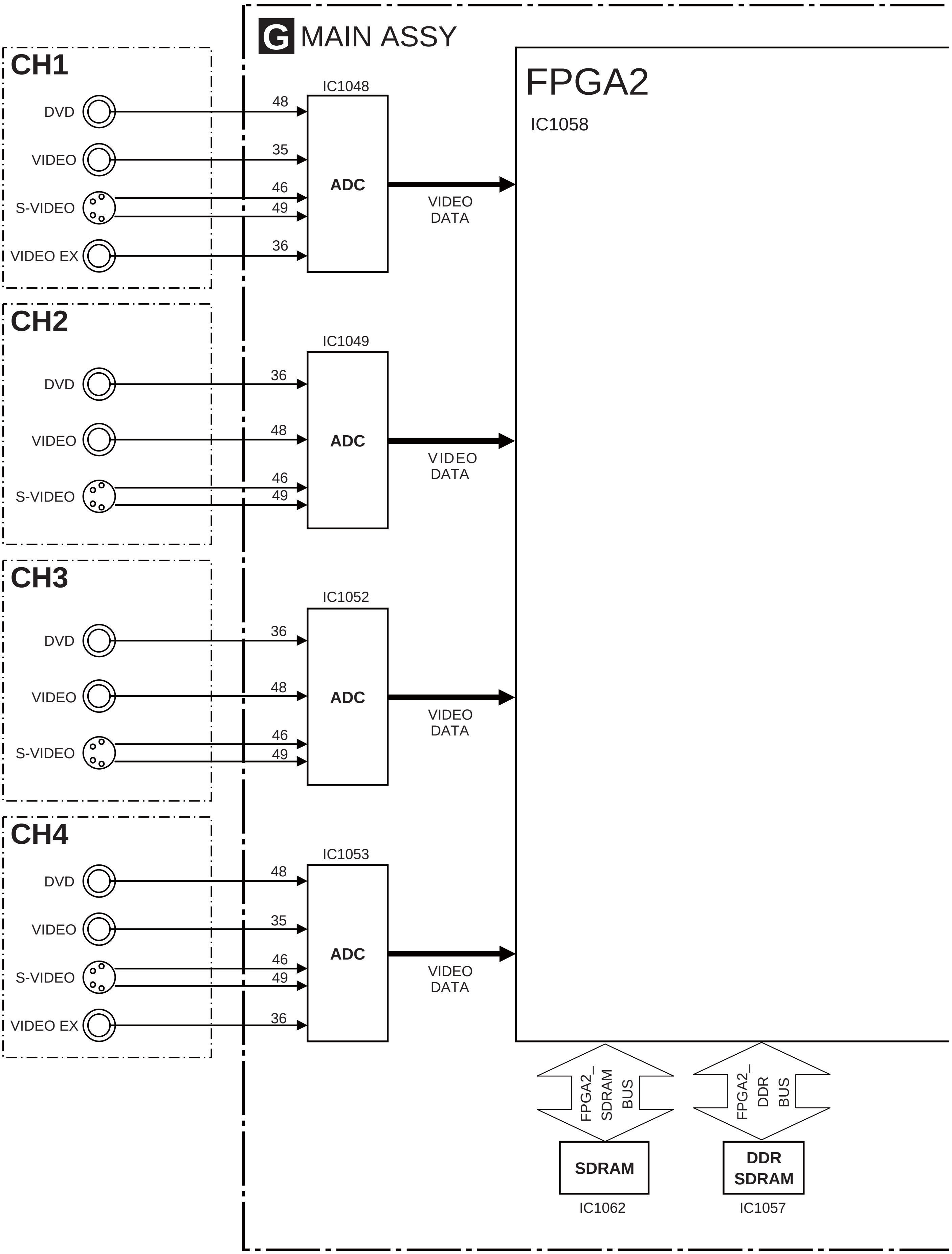
4.2 AUDIO BLOCK DIAGRAM

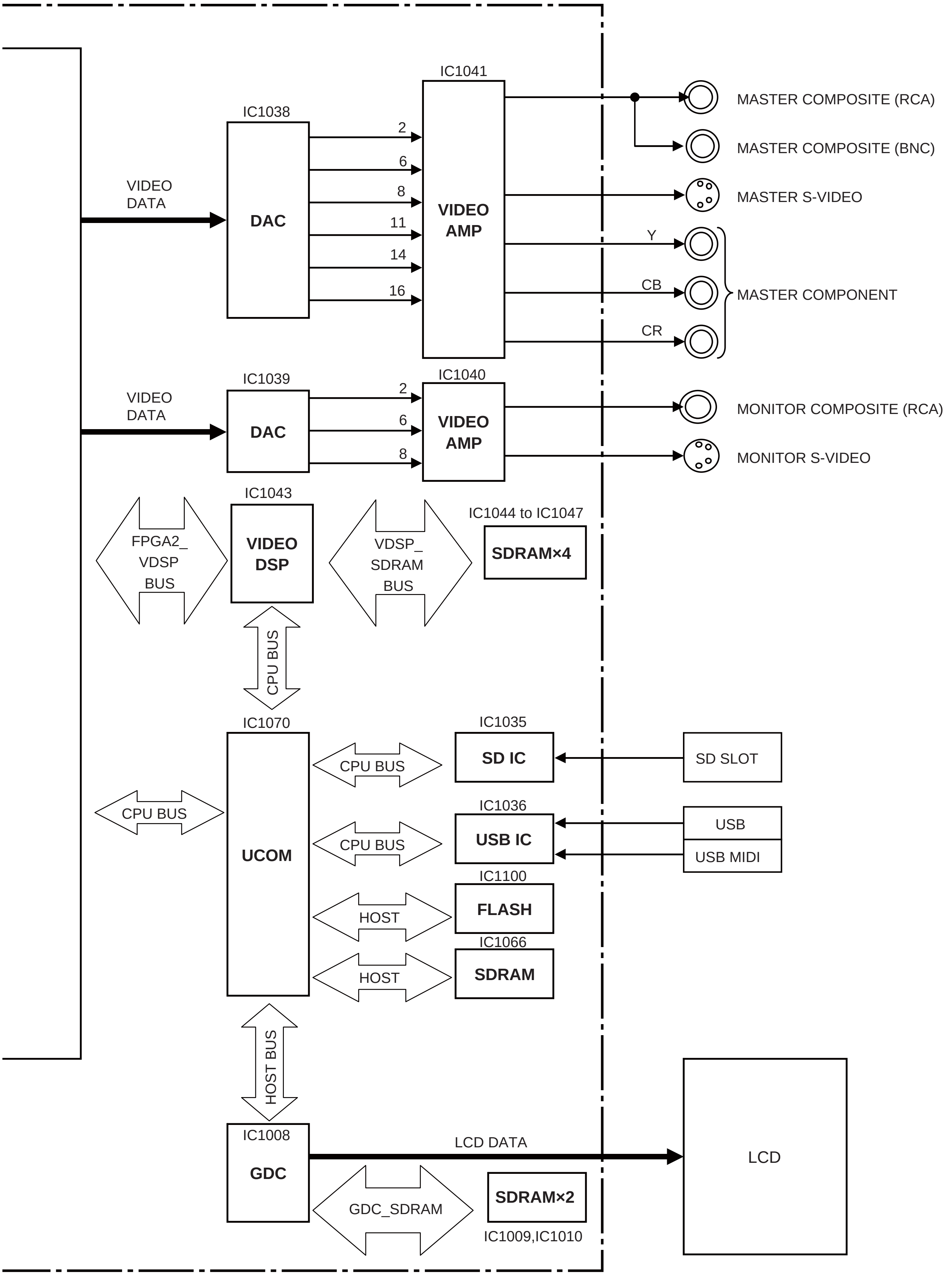

G MAIN ASSY
DSP
IC1001
MIC
D-TRIM
IC4001
MIC1
IC4001
MIC2
IC4003
IC4004
IC4009
A/D
147
MIC1, 2
CH1
D-TRIM
IC4011
RY4001
DVD
IC4012
PHONO
IC4020
IC4021
IC4017
A/D
143
CH1
CH2
D-TRIM
IC4026
RY4002
DVD
IC4027
LINE
IC4035
IC4036
IC4032
A/D
IC1083
144
CH2
IC6503
IC6505
DIGITAL
DIR
SRC
CH3
D-TRIM
IC5032
RY5003
DVD
IC5033
LINE
IC5041
IC5042
IC5038
A/D
IC1084
145
CH3
IC6504
IC6506
DIGITAL
DIR
SRC
CH4
D-TRIM
IC5047
RY5004
DVD
IC5048
PHONO
IC5056
IC5057
IC5053
A/D
146
CH4



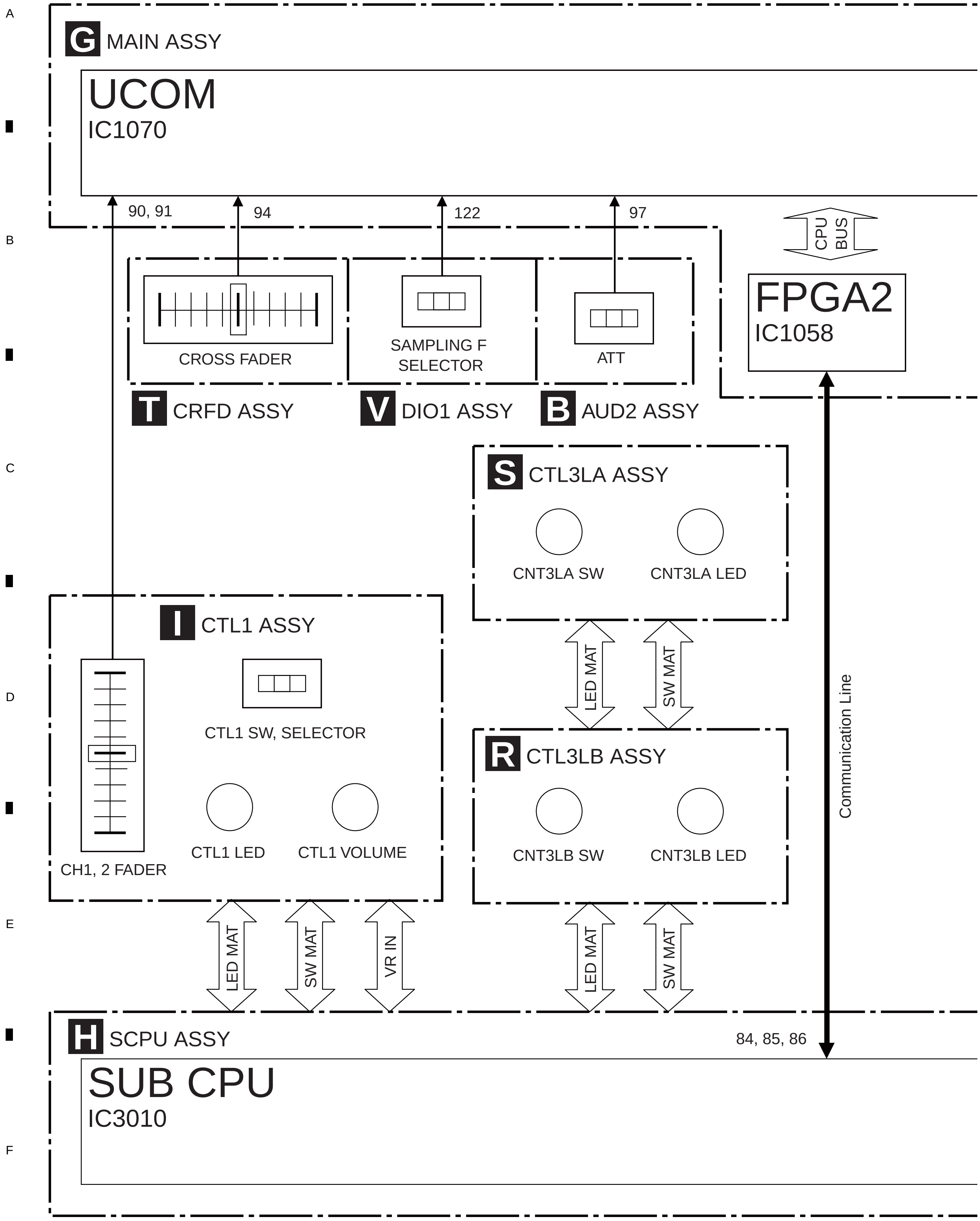
HP
13
IC7404
D/A
IC7406
MUTE
HP
D-TRIM
MASTER
27
IC5004
D/A
L: IC5008
R: IC5009
L: IC5011
R: IC5010
L: IC5013
R: IC5012
L: IC5015
R: IC5014
MUTE
MASTER1
IC5021
MUTE
MASTER2
BOOTH
20
IC4044
D/A
L: IC4045
R: IC4046
L: IC4048
R: IC4047
MUTE
BOOTH
REC
18
IC5019
D/A
IC5020
MUTE
REC
D-OUT
17
IC6517
SRC
IC6516
DIT
DIGITAL OUT
IC1003
SDRAM
IC1101
FLASH ROM
ADSP BUS
IC1055
FPGA1
CPU BUS
IC1070
UCOM
MIDI OUT

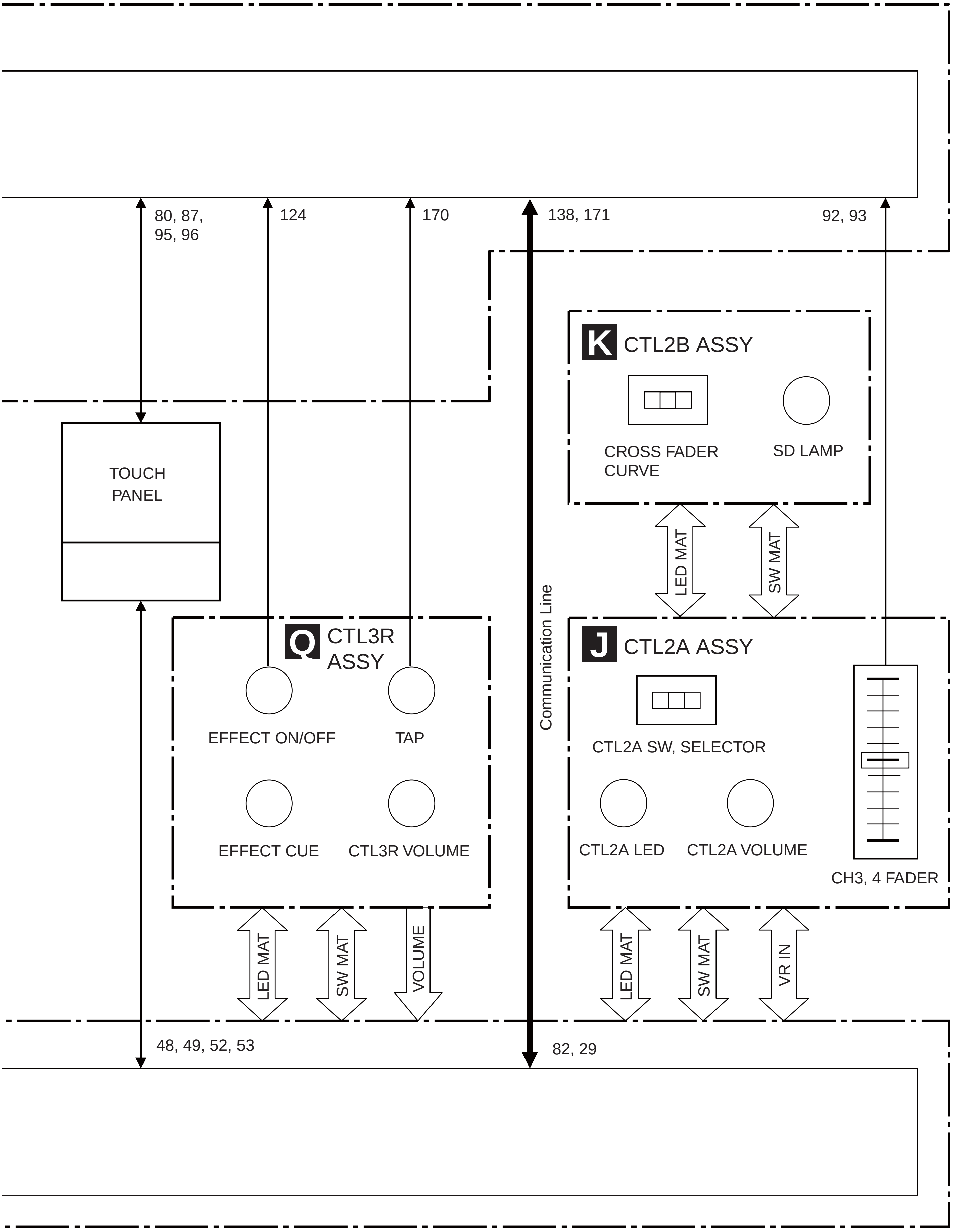
4.3 VIDEO BLOCK DIAGRAM


G MAIN ASSY
CH1
DVD
VIDEO
S-VIDEO
VIDEO EX
48
35
46
49
36
IC1048
ADC
VIDEO DATA
CH2
DVD
VIDEO
S-VIDEO
36
48
46
49
IC1049
ADC
VIDEO DATA
CH3
DVD
VIDEO
S-VIDEO
36
48
46
49
IC1052
ADC
VIDEO DATA
CH4
DVD
VIDEO
S-VIDEO
VIDEO EX
48
35
46
49
36
IC1053
ADC
VIDEO DATA
FPGA2
IC1058
FPGA2_ SDRAM BUS
FPGA2_ DDR BUS
SDRAM
IC1062
DDR SDRAM
IC1057


VIDEO
DATA
IC1038
DAC
2
6
8
11
14
16
IC1041
VIDEO
AMP
MASTER COMPOSITE (RCA)
MASTER COMPOSITE (BNC)
MASTER S-VIDEO
Y
CB
CR
MASTER COMPONENT
VIDEO
DATA
IC1039
DAC
2
6
8
IC1040
VIDEO
AMP
MONITOR COMPOSITE (RCA)
MONITOR S-VIDEO
FPGA2_
VDSP
BUS
IC1043
VIDEO
DSP
VDSP_
SDRAM
BUS
IC1044 to IC1047
SDRAM×4
CPU BUS
IC1070
UCOM
CPU BUS
CPU BUS
IC1035
SD IC
SD SLOT
CPU BUS
IC1036
USB IC
USB
USB MIDI
HOST
IC1100
FLASH
HOST
IC1066
SDRAM
HOST BUS
IC1008
GDC
LCD DATA
LCD
GDC_SDRAM
SDRAM×2
IC1009,IC1010

4.4 FUNCTION BLOCK DIAGRAM

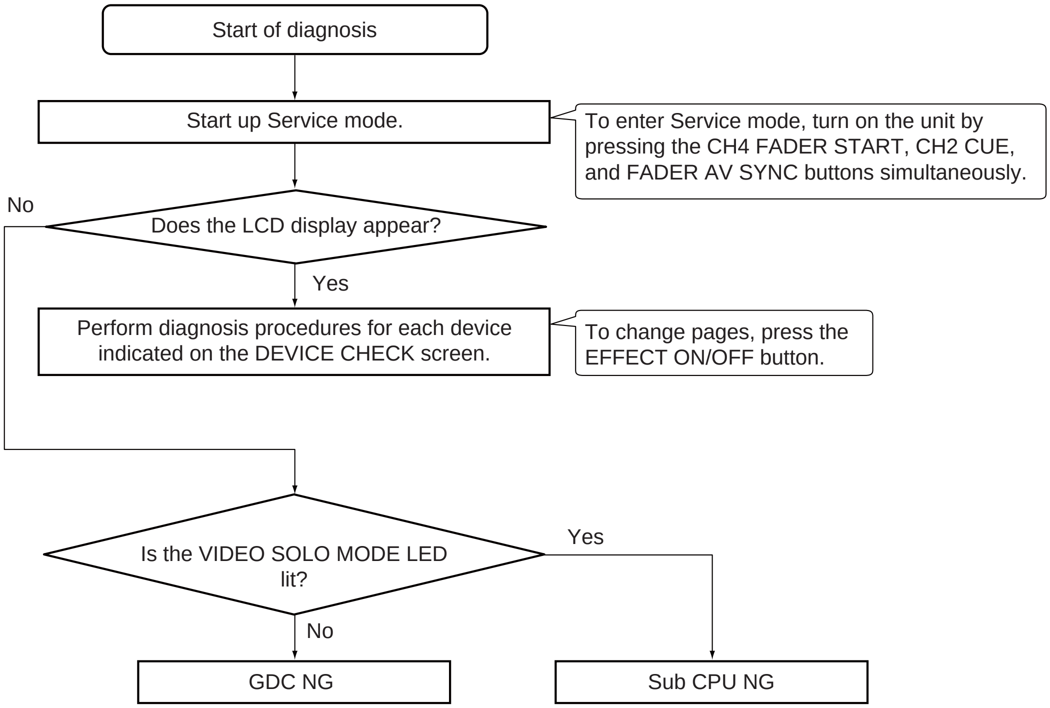

A
B
C
D
E
F
G MAIN ASSY
UCOM
IC1070
90, 91
94
122
97
CPU BUS
FPGA2
IC1058
CROSS FADER
SAMPLING F SELECTOR
ATT
T CRFD ASSY
V DIO1 ASSY
B AUD2 ASSY
S CTL3LA ASSY
CNT3LA SW
CNT3LA LED
LED MAT
SW MAT
R CTL3LB ASSY
CNT3LB SW
CNT3LB LED
Communication Line
I CTL1 ASSY
CTL1 SW, SELECTOR
CTL1 LED
CTL1 VOLUME
CH1, 2 FADER
LED MAT
SW MAT
VR IN
LED MAT
SW MAT
H SCPU ASSY
84, 85, 86
SUB CPU
IC3010


A
B
C
D
E
F
80, 87,
95, 96
124
170
138, 171
92, 93
TOUCH
PANEL
K CTL2B ASSY
CROSS FADER
CURVE
SD LAMP
LED MAT
SW MAT
Communication Line
Q CTL3R
ASSY
EFFECT ON/OFF
TAP
EFFECT CUE
CTL3R VOLUME
J CTL2A ASSY
CTL2A SW, SELECTOR
CTL2A LED
CTL2A VOLUME
CH3, 4 FADER
LED MAT
SW MAT
VOLUME
LED MAT
SW MAT
VR IN
48, 49, 52, 53
82, 29

5. DIAGNOSIS

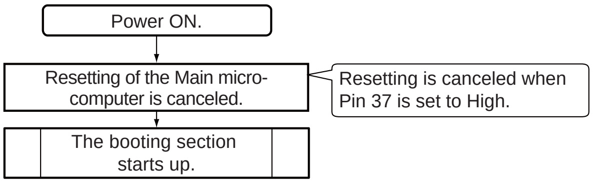
5.1 DIAGNOSIS FLOW

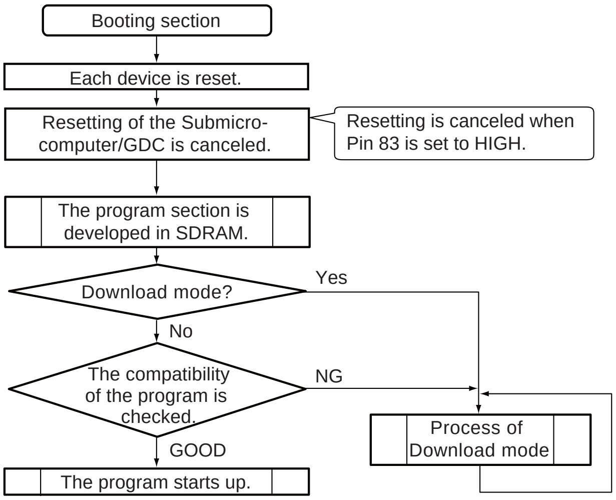
Diagnosis Flowchart

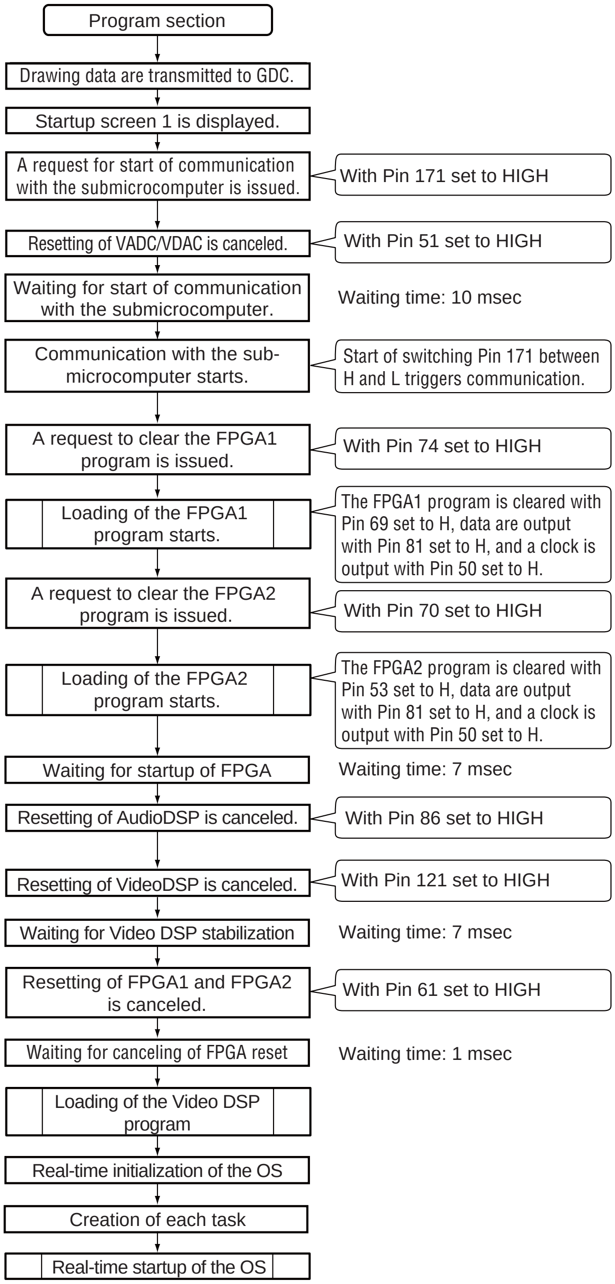

Start of diagnosis
Start up Service mode.
To enter Service mode, turn on the unit by pressing the CH4 FADER START, CH2 CUE, and FADER AV SYNC buttons simultaneously.
Does the LCD display appear?
No
Yes
Perform diagnosis procedures for each device indicated on the DEVICE CHECK screen.
To change pages, press the EFFECT ON/OFF button.
Is the VIDEO SOLO MODE LED lit?
Yes
No
GDC NG
Sub CPU NG

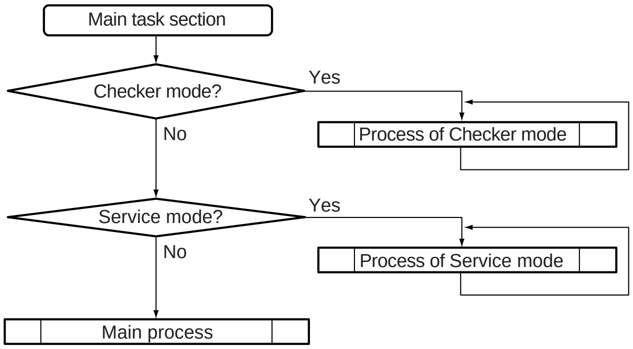
5.2 POWER ON SEQUENCE

● Main Microcomputer

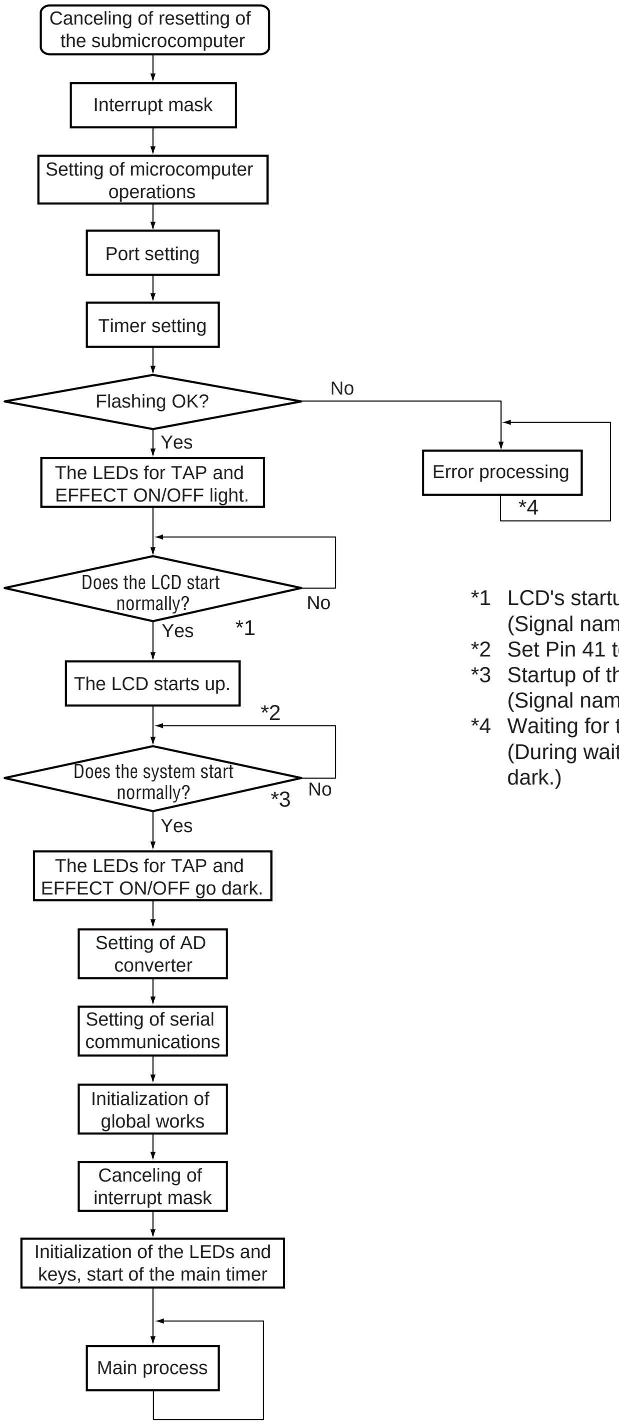

Power ON.
Resetting of the Main micro-computer is canceled.
Resetting is canceled when Pin 37 is set to High.
The booting section starts up.


Booting section
Each device is reset.
Resetting of the Submicro-computer/GDC is canceled.
Resetting is canceled when Pin 83 is set to HIGH.
The program section is developed in SDRAM.
Download mode?
Yes
No
The compatibility of the program is checked.
NG
GOOD
Process of Download mode
The program starts up.


Program section
Drawing data are transmitted to GDC.
Startup screen 1 is displayed.
A request for start of communication with the submicrocomputer is issued.
With Pin 171 set to HIGH
Resetting of VADC/VDAC is canceled.
With Pin 51 set to HIGH
Waiting for start of communication with the submicrocomputer.
Waiting time: 10 msec
Communication with the sub-microcomputer starts.
Start of switching Pin 171 between H and L triggers communication.
A request to clear the FPGA1 program is issued.
With Pin 74 set to HIGH
Loading of the FPGA1 program starts.
The FPGA1 program is cleared with Pin 69 set to H, data are output with Pin 81 set to H, and a clock is output with Pin 50 set to H.
A request to clear the FPGA2 program is issued.
With Pin 70 set to HIGH
Loading of the FPGA2 program starts.
The FPGA2 program is cleared with Pin 53 set to H, data are output with Pin 81 set to H, and a clock is output with Pin 50 set to H.
Waiting for startup of FPGA
Waiting time: 7 msec
Resetting of AudioDSP is canceled.
With Pin 86 set to HIGH
Resetting of VideoDSP is canceled.
With Pin 121 set to HIGH
Waiting for Video DSP stabilization
Waiting time: 7 msec
Resetting of FPGA1 and FPGA2 is canceled.
With Pin 61 set to HIGH
Waiting for canceling of FPGA reset
Waiting time: 1 msec
Loading of the Video DSP program
Real-time initialization of the OS
Creation of each task
Real-time startup of the OS


Main task section
Checker mode?
Yes
No
Process of Checker mode
Service mode?
Yes
No
Process of Service mode
Main process

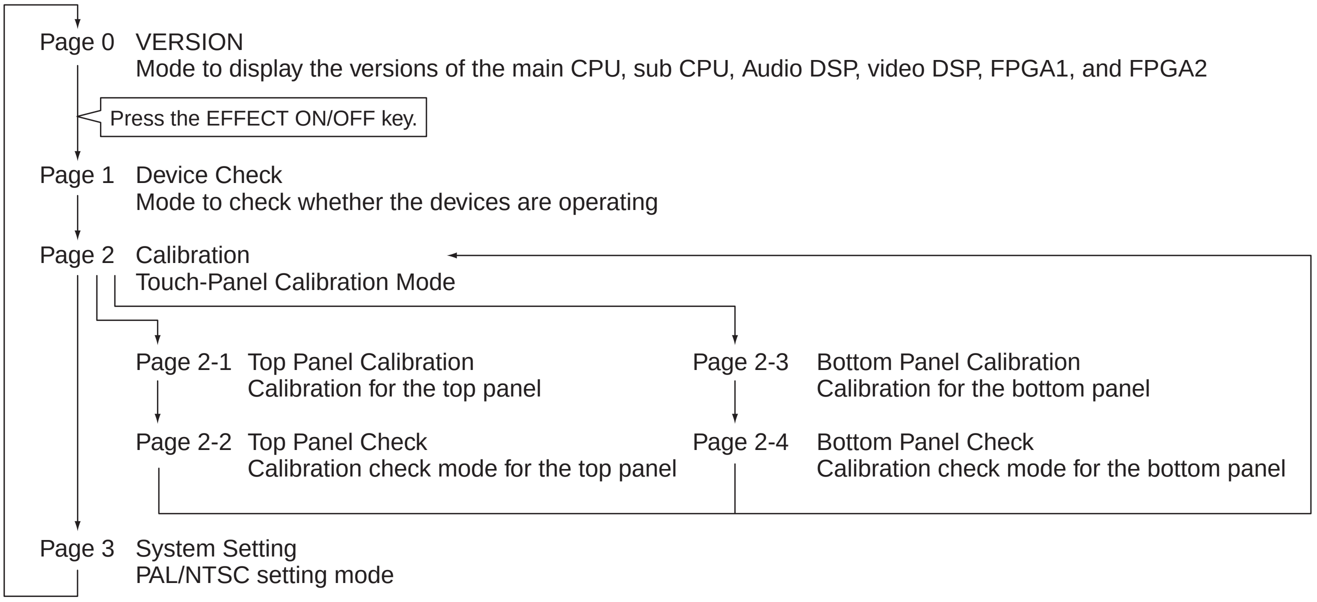
AV mixer submicrocomputer


Canceling of resetting of the submicrocomputer
Interrupt mask
Setting of microcomputer operations
Port setting
Timer setting
Flashing OK?
No
Yes
Error processing
*4
The LEDs for TAP and EFFECT ON/OFF light.
Does the LCD start normally?
No
Yes
*1
The LCD starts up.
*2
Does the system start normally?
*3
No
Yes
The LEDs for TAP and EFFECT ON/OFF go dark.
Setting of AD converter
Setting of serial communications
Initialization of global works
Canceling of interrupt mask
Initialization of the LEDs and keys, start of the main timer
Main process

*1 LCD's startup is OK with Pin 29 set to H.
(Signal name: SUB_CPU_BUSY)
*2 Set Pin 41 to H. (Signal name: LCD_SW)
*3 Startup of the system is OK with Pin 29 set to L.
(Signal name: SUB_CPU_BUSY)
*4 Waiting for the command for start of downloading from the main microcomputer
(During waiting, the FADER START CH1 to CH4 LEDs cyclically light then go dark.)

6. SERVICE MODE

6.1 LIST OF PAGES IN SERVICE MODE


Page 0 VERSION
Mode to display the versions of the main CPU, sub CPU, Audio DSP, video DSP, FPGA1, and FPGA2

Press the EFFECT ON/OFF key.

Page 1 Device Check
Mode to check whether the devices are operating

Page 2 Calibration
Touch-Panel Calibration Mode

Page 2-1 Top Panel Calibration
Calibration for the top panel

Page 2-2 Top Panel Check
Calibration check mode for the top panel

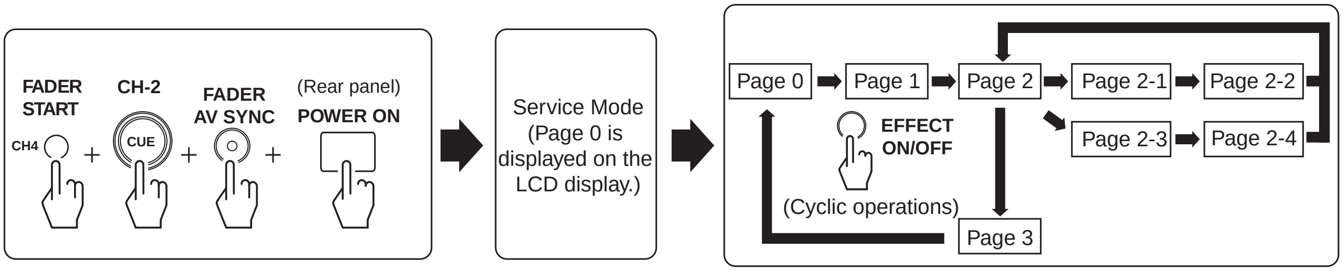
Page 2-3 Bottom Panel Calibration
Calibration for the bottom panel

Page 2-4 Bottom Panel Check
Calibration check mode for the bottom panel

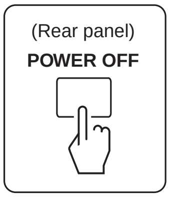
Page 3 System Setting
PAL/NTSC setting mode

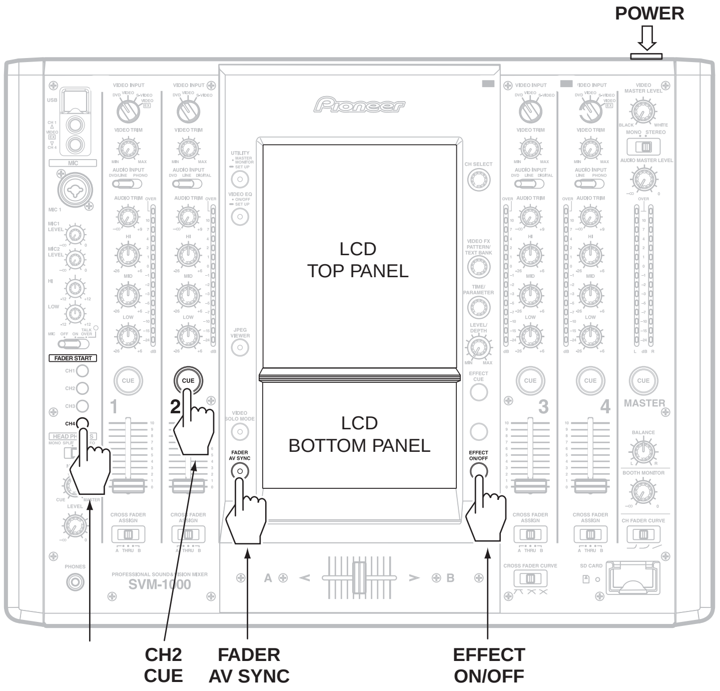
6.2 SERVICE MODE

Service Mode : ON


FADER START
CH4
CH-2
CUE
FADER AV SYNC
(Rear panel)
POWER ON
Service Mode (Page 0 is displayed on the LCD display.)
Page 0
Page 1
Page 2
Page 2-1
Page 2-2
Page 2-3
Page 2-4
EFFECT ON/OFF
(Cyclic operations)
Page 3

Service Mode : CANCEL

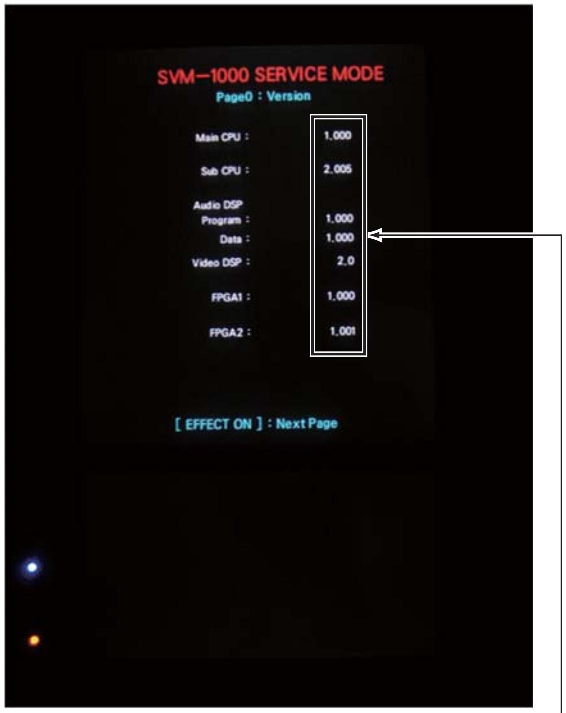

(Rear panel)
POWER OFF


POWER
LCD TOP PANEL
LCD BOTTOM PANEL
CH2 CUE
FADER AV SYNC
EFFECT ON/OFF
SVM-1000

6.3 SERVICE MODE IDENTIFICATION

Page0 : VERSION

Mode to display the versions of the main CPU, sub CPU, Audio DSP, video DSP, FPGA1, and FPGA2



SVM–1000 SERVICE MODE
Page0 : Version

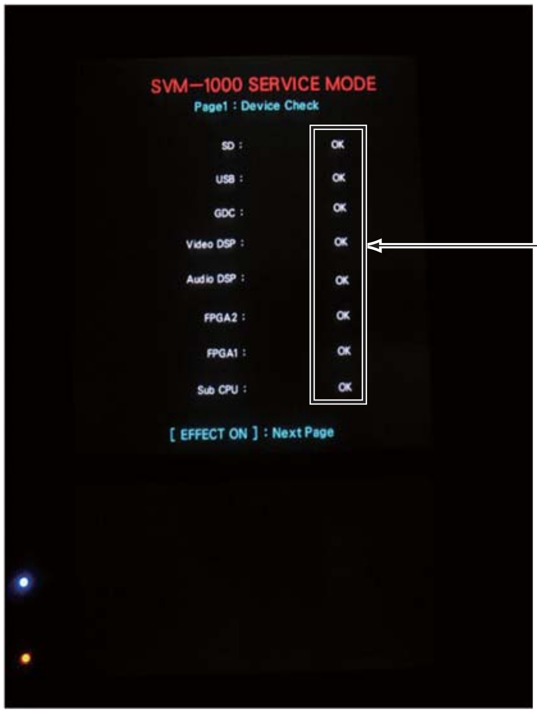
Main CPU : 1.000
Sub CPU : 2.005
Audio DSP
Program : 1.000
Data : 1.000
Video DSP : 2.0
FPGA1 : 1.000
FPGA2 : 1.001

[EFFECT ON] : Next Page

The versions of the respective devices are displayed.
The version of the main CPU is also used as the product version.

Page1 : Device Check

Mode to check whether the devices are operating.



SVM–1000 SERVICE MODE
Page1 : Device Check

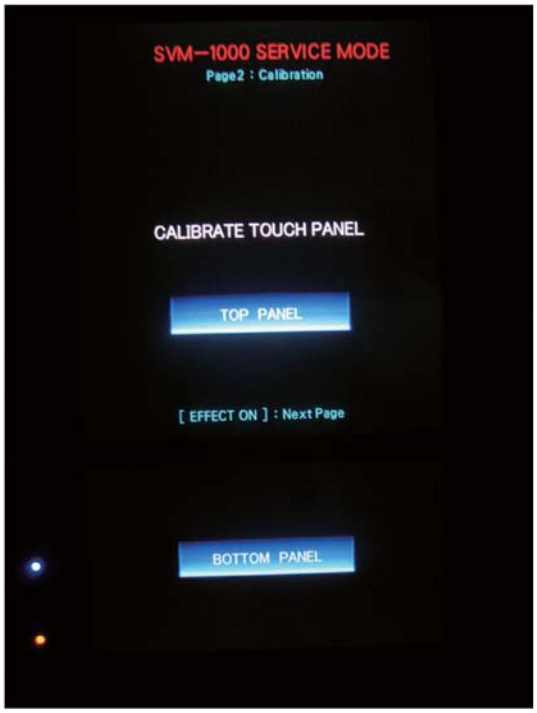
SD : OK
USB : OK
GDC : OK
Video DSP : OK
Audio DSP : OK
FPGA2 : OK
FPGA1 : OK
Sub CPU : OK

[EFFECT ON] : Next Page

Any defective blocks of the product can be detected in this mode.
If the corresponding device has been activated normally, “OK” is displayed.
For a device detected to be abnormal, “NG” is displayed.

Page2 : Calibration

Touch-Panel Calibration Mode



SVM–1000 SERVICE MODE
Page2 : Calibration

CALIBRATE TOUCH PANEL

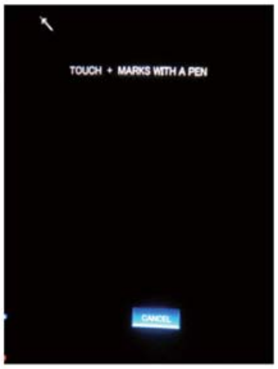
[EFFECT ON] : Next Page

TOP PANEL
Perform calibration for the top panel (page 2-1).

BOTTOM PANEL
Perform calibration for the bottom panel (page 2-3).

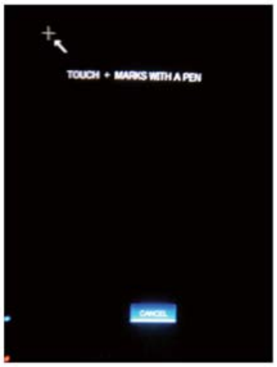
Page2-1 : Top Panel Calibration

Calibration for the top panel

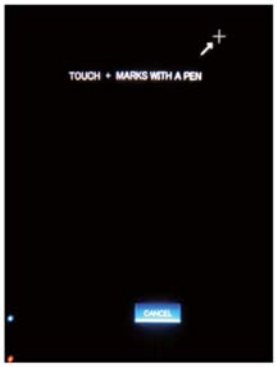


TOUCH + MARKS WITH A PEN

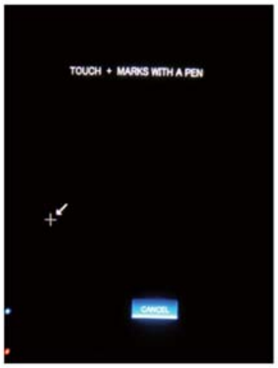
Perform calibration on point 1 and the subsequent 9 points on the touch panel.
A + symbol is displayed at each point in sequence.
Touch the center of the + symbol with a pointed tool, such as a stylus pen.
When you finish touching all the points, the display changes to Page 2-2.



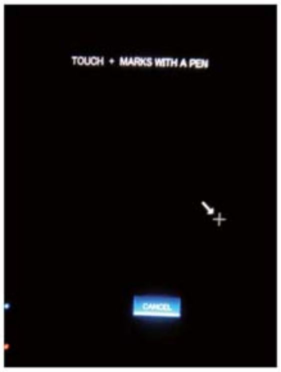
TOUCH + MARKS WITH A PEN



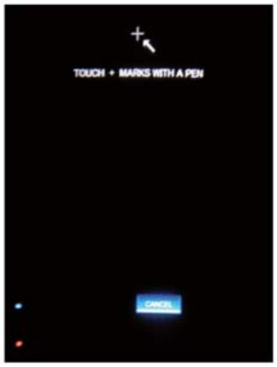
TOUCH + MARKS WITH A PEN



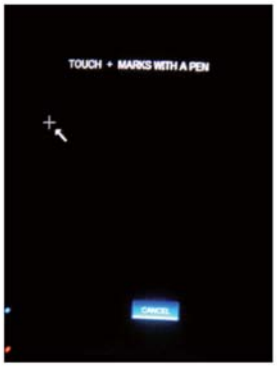
TOUCH + MARKS WITH A PEN



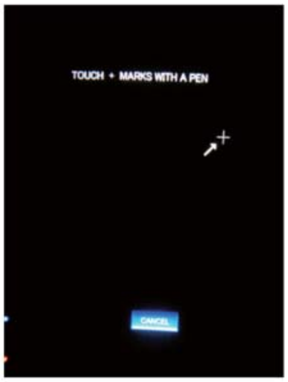
TOUCH + MARKS WITH A PEN



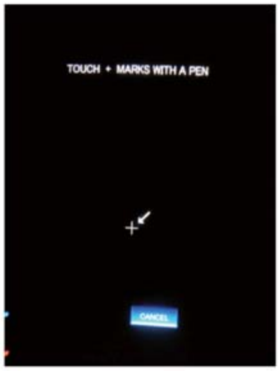
TOUCH + MARKS WITH A PEN



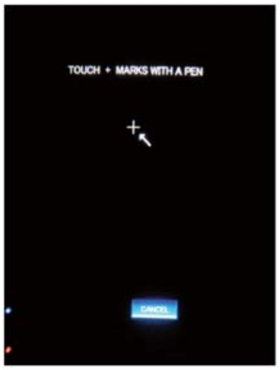
TOUCH + MARKS WITH A PEN



TOUCH + MARKS WITH A PEN



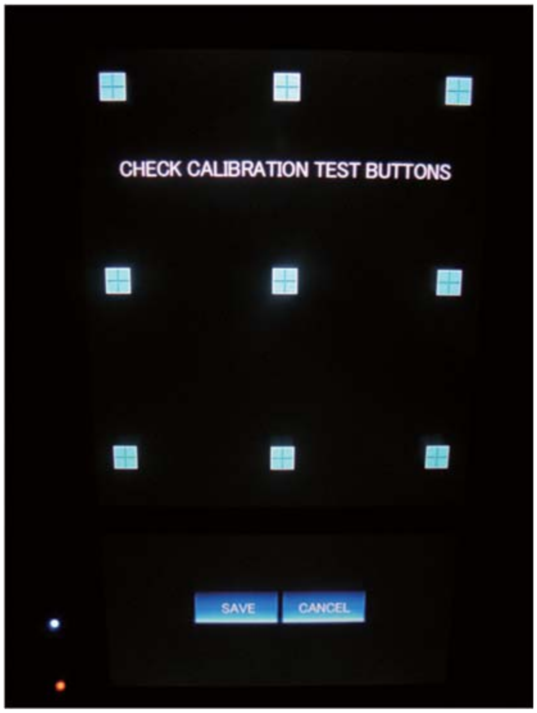
TOUCH + MARKS WITH A PEN



TOUCH + MARKS WITH A PEN

Page2-2 : Top Panel Check

Calibration check mode for the top panel


CHECK CALIBRATION TEST BUTTONS
SAVE
CANCEL

Check the result of the calibration.
Touch the center of ⊞ with a pointed tool, such as a stylus pen.
When the calibration has finished successfully, the color of ⊞ changes from blue to white.

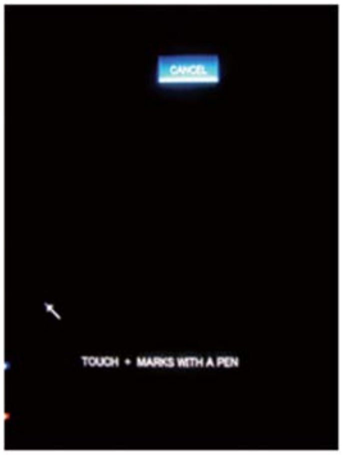
SAVE: To store the calibration settings of the top panel.

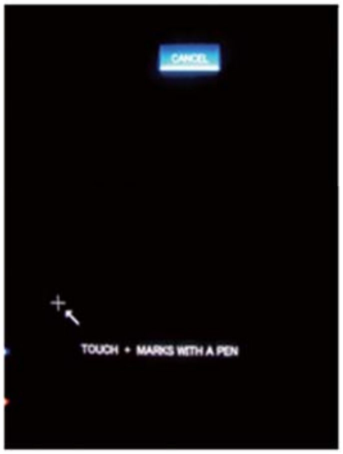
CANCEL: To cancel the calibration settings of the top panel.

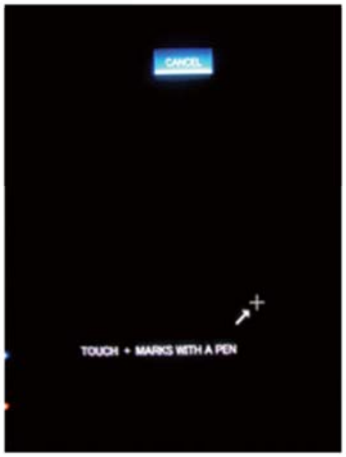
Page2-3 : Bottom Panel Calibration

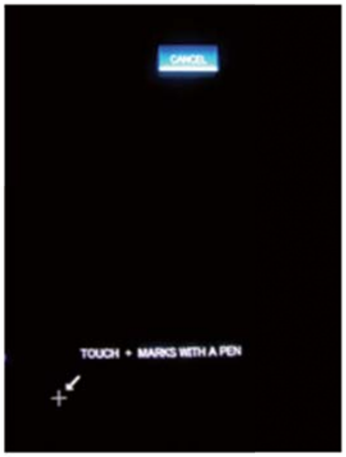
Calibration for the bottom panel

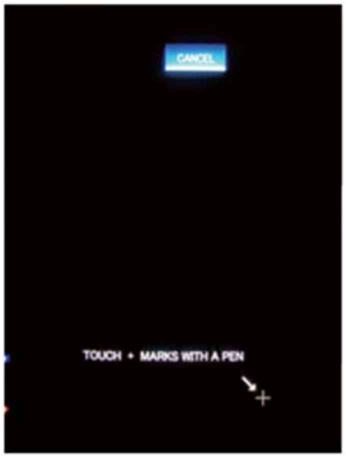
Perform calibration at point 1 and the subsequent 6 points on the touch panel.
A + symbol is displayed on each point in sequence.
Touch the center of the + symbol with a pointed tool, such as a stylus pen.
When you finish touching all the points, the display changes to Page 2-4.

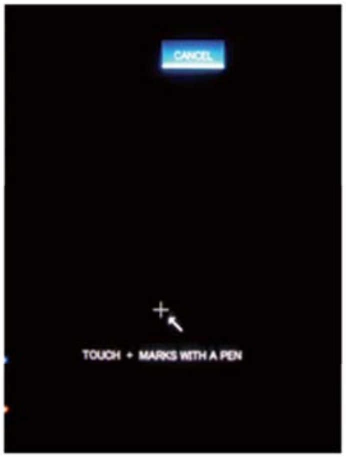

CANCEL
TOUCH + MARKS WITH A PEN

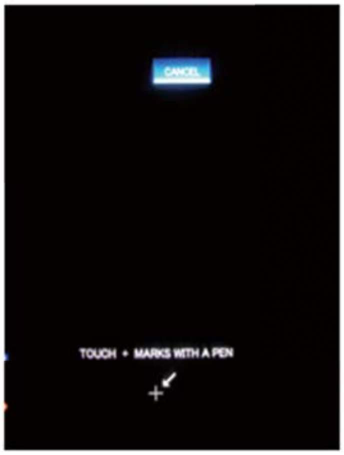

CANCEL
TOUCH + MARKS WITH A PEN


CANCEL
TOUCH + MARKS WITH A PEN


CANCEL
TOUCH + MARKS WITH A PEN

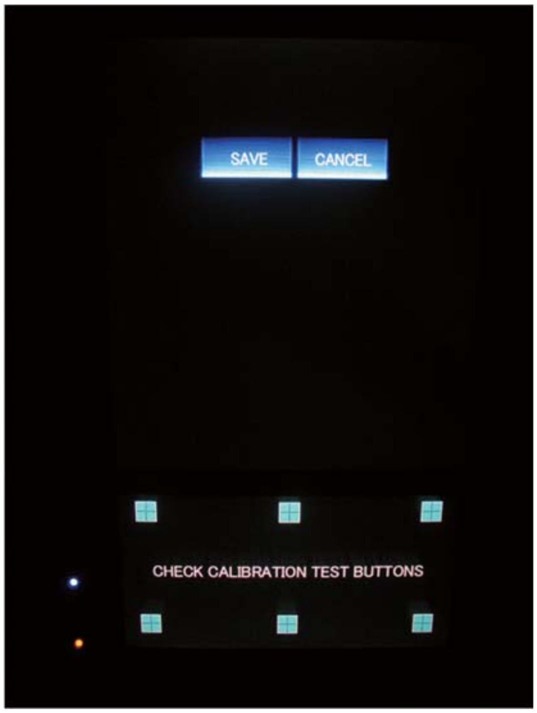

CANCEL
TOUCH + MARKS WITH A PEN


CANCEL
TOUCH + MARKS WITH A PEN


CANCEL
TOUCH + MARKS WITH A PEN

Page2-4 : Bottom Panel Check

Calibration check mode for the bottom panel


SAVE
CANCEL
CHECK CALIBRATION TEST BUTTONS

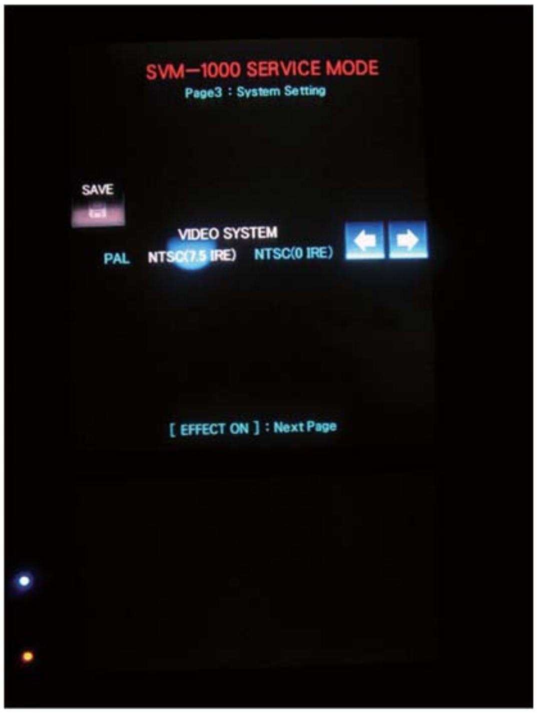
Check the result of the calibration.
Touch the center of ⊞ with a pointed tool, such as a stylus pen.
When the calibration has finished successfully, the color of ⊞ changes from blue to white.

SAVE: To store the calibration settings of the bottom panel.

CANCEL: To cancel the calibration settings of the bottom panel.

Page3 : System Setting

PAL/NTSC setting mode


SVM–1000 SERVICE MODE
Page3 : System Setting
SAVE
VIDEO SYSTEM
PAL
NTSC(7.5 IRE)
NTSC(0 IRE)
[EFFECT ON] : Next Page

Perform the factory presetting of the video system.
Set it to the corresponding system for the destination area.

Move the cursor with the ⬅ (left) or ➡ (right) key to the desired setting then press the SAVE button.

PAL
To set the video system to PAL.

NTSC (7.5IRE)
To set the video system to NTSC (7.5IRE).

NTSC (0IRE)
To set the video system to NTSC (0IRE).

The settings for each destination are shown below:

Destination		Video Format
North America	/KUCXJ	NTSC (7.5IRE)
Europe	/WYXJ5	PAL
Japan	/JJXJ	NTSC (0IRE)
China	/WAXJ5	PAL
General	/TLXJ	NTSC (0IRE)

6.4 LIST OF PAGES IN TEST MODO

Page 0	Main Page / VERSION Mode to display the versions of the main CPU, sub-CPU, Audio DSP, video DSP, FPGA1, and FPGA2

➡ : Press the EFFECT ON/OFF key.
⇨ : Press the TAP key.

Press the EFFECT ON/OFF key.

Key/VR Check Mode

Page 1	LED ALL ON Mode to light all LED and FL segments
Page 2	LED ALL OFF Mode to turn all LED and FL segments off
Page 3	KEY TEST Mode to indicate the pressed key
Page 4	SWITCH TEST Mode to indicate the switch positions
Page 5-1	VOLUME TEST (1) Mode to indicate the volume-control positions
Page 5-2	VOLUME TEST (2) Mode to indicate the volume-control positions
Page 6	METER TEST Mode to check the LED segments of the meters by turning them on one by one Each time you press the CUE key, the LED segments of the meters for each channel light one by one. All segments are dark at the beginning. When you press the key again after your 15th press of the key (when the top LED is lit), all segments will go dark again, permitting the test to be repeated from the beginning.

Press the EFFECT ON/OFF key to return to the main page.

Press the TAP key.

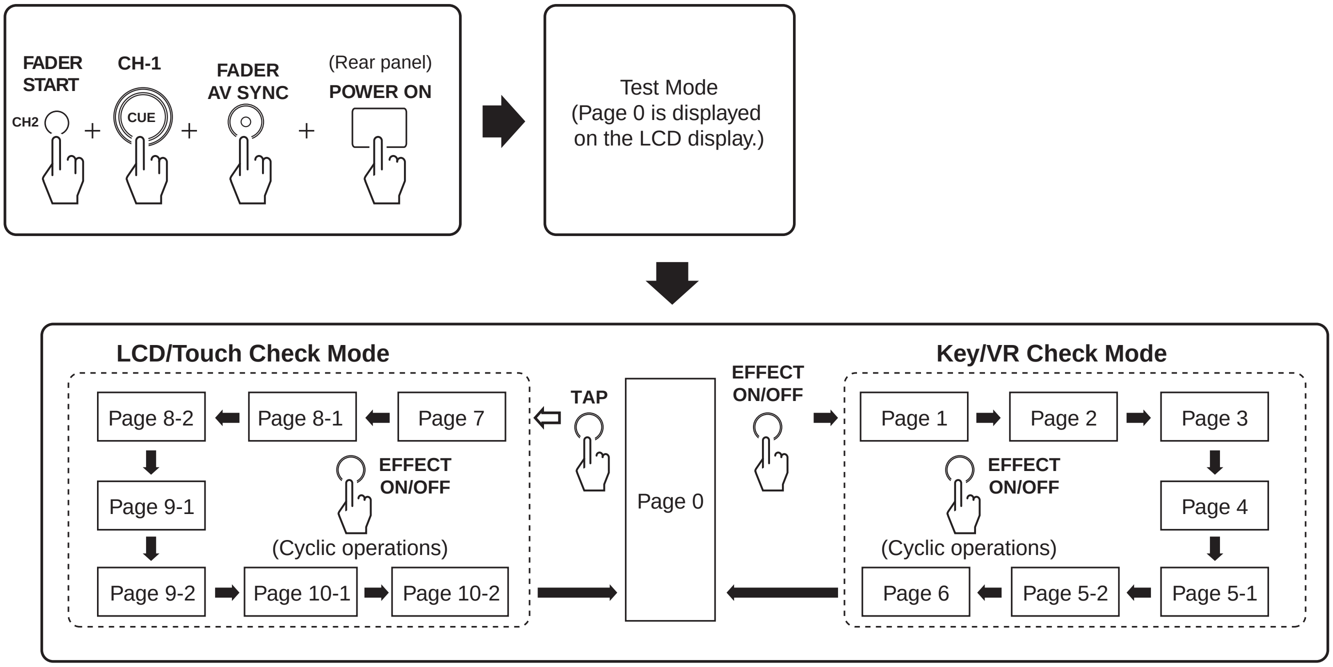
LCD/Touch Check Mode

Page 7	TOUCH PANEL TEST Mode to indicate the coordinates on the touch panels being touched
Page 8-1	MAIN PANEL TEST For checking the display colors on the main panel (color bars)
Page 8-2	SUB PANEL TEST For checking the display colors on the sub-panel (color bars)
Page 9-1	MAIN PANEL TEST For checking for defective dots on the main panel (white)
Page 9-2	SUB PANEL TEST For checking for defective dots on the sub-panel (white)
Page 10-1	MAIN PANEL TEST For checking the luminescent spots on the main panel (black)
Page 10-2	SUB PANEL TEST For checking the luminescent spots on the sub-panel (black)

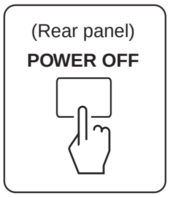
Press the EFFECT ON/OFF key to return to the main page.

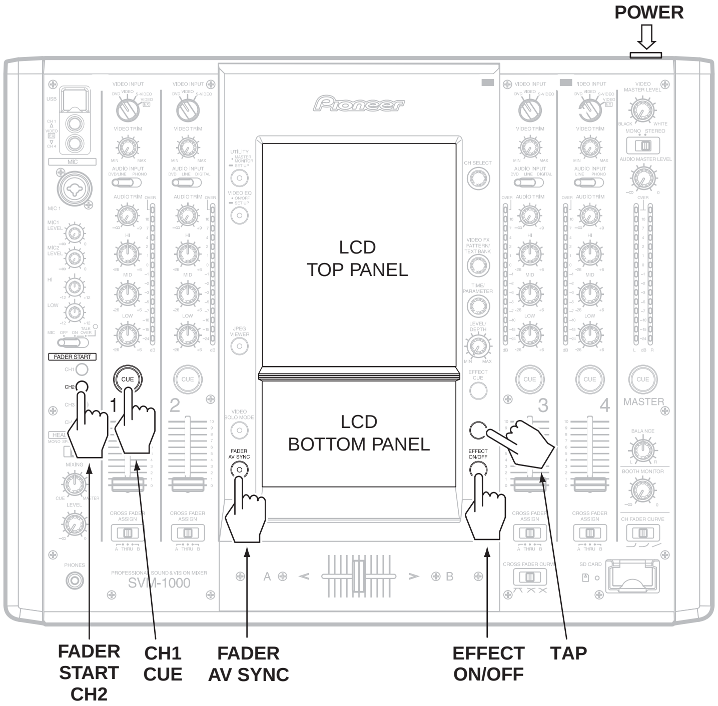
6.5 TEST MODE

Test Mode : ON


FADER START
CH2
CH-1
CUE
FADER AV SYNC
(Rear panel)
POWER ON
Test Mode
(Page 0 is displayed on the LCD display.)
LCD/Touch Check Mode
Page 8-2
Page 8-1
Page 7
Page 9-1
EFFECT ON/OFF
(Cyclic operations)
Page 9-2
Page 10-1
Page 10-2
TAP
Page 0
EFFECT ON/OFF
Key/VR Check Mode
Page 1
Page 2
Page 3
EFFECT ON/OFF
Page 4
(Cyclic operations)
Page 6
Page 5-2
Page 5-1

Test mode : CANCEL


(Rear panel)
POWER OFF

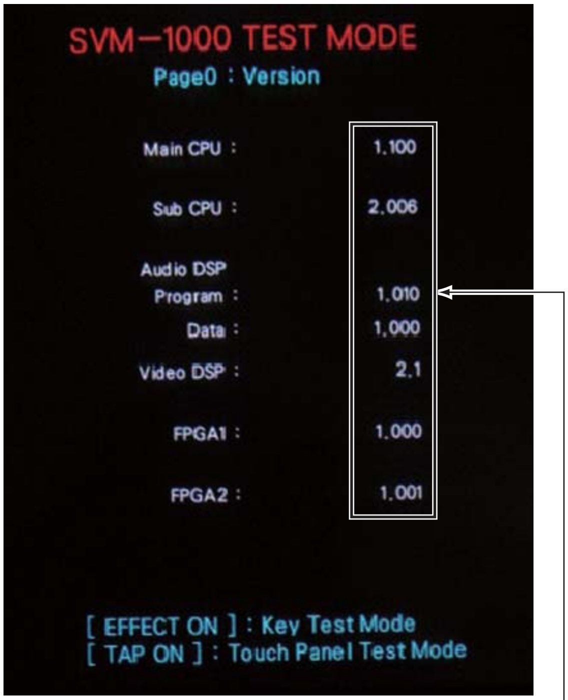

POWER
Pioneer
LCD TOP PANEL
LCD BOTTOM PANEL
SVM-1000
FADER START CH2
CH1 CUE
FADER AV SYNC
EFFECT ON/OFF
TAP

6.6 TEST MODE IDENTIFICATION

Page0 : Main Page / VERSION

Mode to display the versions of the main CPU, sub-CPU, Audio DSP, video DSP, FPGA1, and FPGA2

In the figure below, the version of the main CPU is 1.100.



SVM−1000 TEST MODE
Page0 : Version

Main CPU : 1.100
Sub CPU : 2.006
Audio DSP
Program : 1.010
Data : 1.000
Video DSP : 2.1
FPGA1 : 1.000
FPGA2 : 1.001

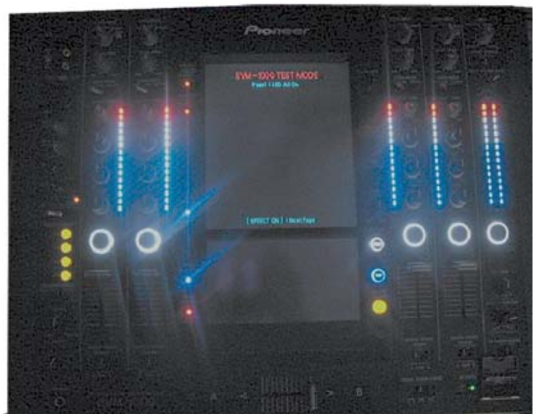
[EFFECT ON] : Key Test Mode
[TAP ON] : Touch Panel Test Mode

The versions of the respective devices are displayed.

Press the EFFECT ON/OFF key to shift to Key/VR Check mode.
Press the TAP key to shift to LCD/Touch Check mode.

Page1 : LED ALL ON

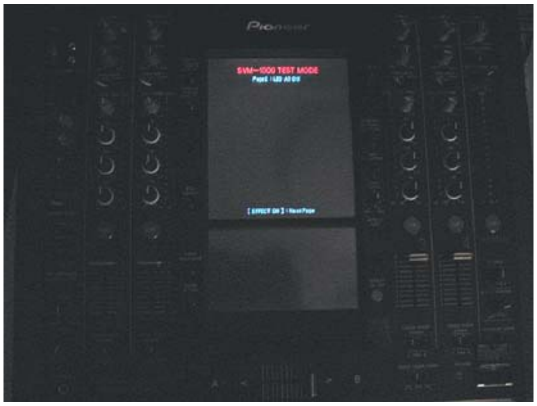
Mode to light all LED and FL segments



Check that all the segments are lit.

Page2 : LED ALL OFF

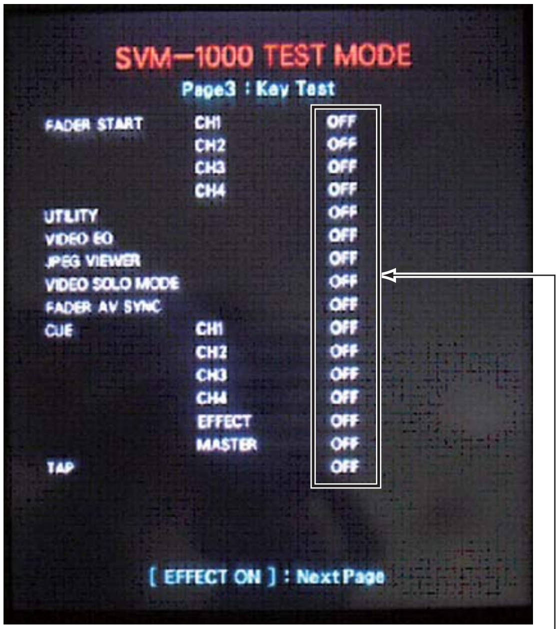
Mode to turn all LED and FL segments off



Check that all the segments are dark.

Page3 : KEY TEST

Mode to indicate the pressed key



SVM−1000 TEST MODE
Page3 : Key Test

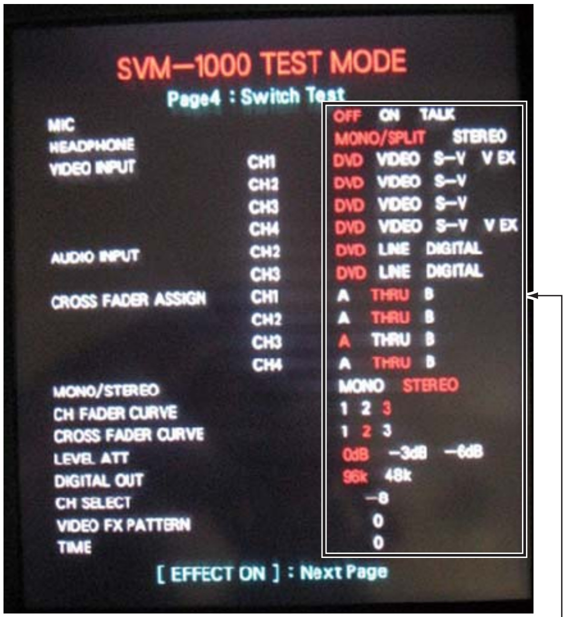
FADER START CH1 OFF
CH2 OFF
CH3 OFF
CH4 OFF
UTILITY OFF
VIDEO EO OFF
JPEG VIEWER OFF
VIDEO SOLO MODE OFF
FADER AV SYNC OFF
CUE CH1 OFF
CH2 OFF
CH3 OFF
CH4 OFF
EFFECT OFF
MASTER OFF
TAP OFF

[EFFECT ON] : Next Page

When you press a key, the corresponding indication changes to "ON" (lit in red).
While the key is not pressed, the indication is "OFF" (lit in white).

Page4 : SWITCH TEST

Mode to indicate the switch positions
Check that the settings are switched properly.



SVM–1000 TEST MODE
Page4 : Switch Test

MIC		OFF ON TALK
HEADPHONE		MONO/SPLIT STEREO
VIDEO INPUT	CH1	DVD VIDEO S–V V EX
	CH2	DVD VIDEO S–V
	CH3	DVD VIDEO S–V
	CH4	DVD VIDEO S–V V EX
AUDIO INPUT	CH2	DVD LINE DIGITAL
	CH3	DVD LINE DIGITAL
CROSS FADER ASSIGN	CH1	A THRU B
	CH2	A THRU B
	CH3	A THRU B
	CH4	A THRU B
MONO/STEREO		MONO STEREO
CH FADER CURVE		1 2 3
CROSS FADER CURVE		1 2 3
LEVEL ATT		0dB –3dB –6dB
DIGITAL OUT		96k 48k
CH SELECT		–8
VIDEO FX PATTERN		0
TIME		0

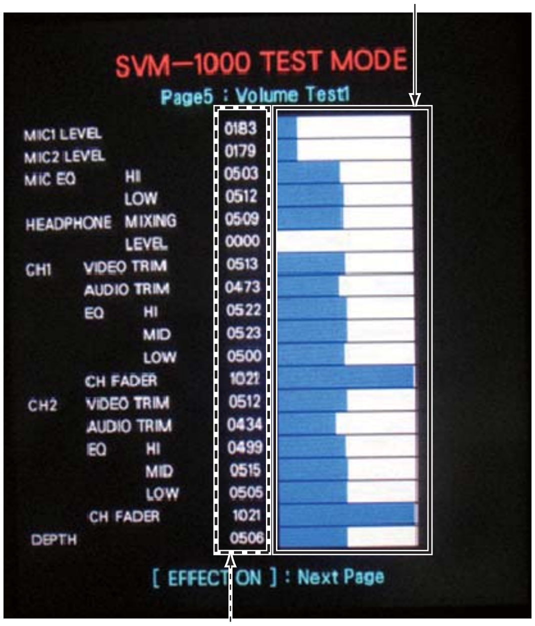
[EFFECT ON] : Next Page

When you change a switch setting, the corresponding indication of the selected position lights in red.

Page5-1 : VOLUME TEST (1)

Mode to indicate the volume-control positions
Check that the volume controls (MIC/HEADPHONE/CH1 /CH2 blocks) function properly

The A/D-converted values of the volume control settings are displayed as bars.



SVM–1000 TEST MODE
Page5 : Volume Test1

MIC1 LEVEL		0183
MIC2 LEVEL		0179
MIC EQ	HI	0503
	LOW	0512
HEADPHONE	MIXING	0509
	LEVEL	0000
CH1	VIDEO TRIM	0513
	AUDIO TRIM	0473
	EQ HI	0522
	MID	0523
	LOW	0500
	CH FADER	1021
CH2	VIDEO TRIM	0512
	AUDIO TRIM	0434
	EQ HI	0499
	MID	0515
	LOW	0505
	CH FADER	1021
DEPTH		0506

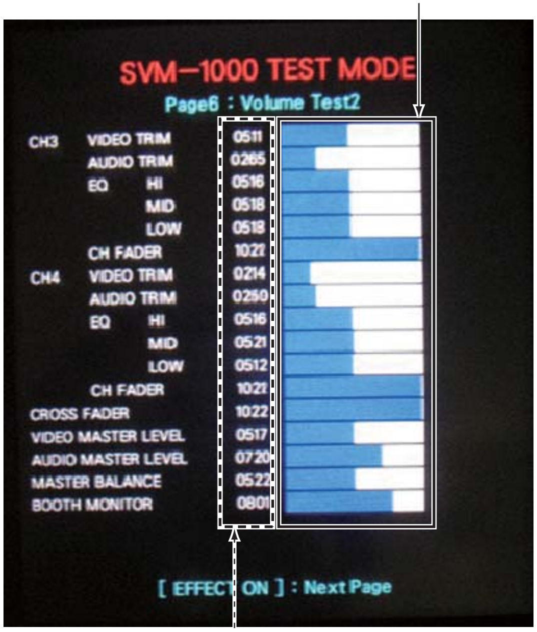
[EFFECT ON] : Next Page

The A/D-converted values of the volume control settings are numerically displayed in the range from 0 to 1023.

Page5-2 : VOLUME TEST (2)

Mode to indicate the volume-control positions
Check that the volume controls (CH3/CH4/FADER /MASTER/BOOTH blocks) function properly.

The A/D-converted values of the volume control settings are displayed as bars.



SVM–1000 TEST MODE
Page6 : Volume Test2

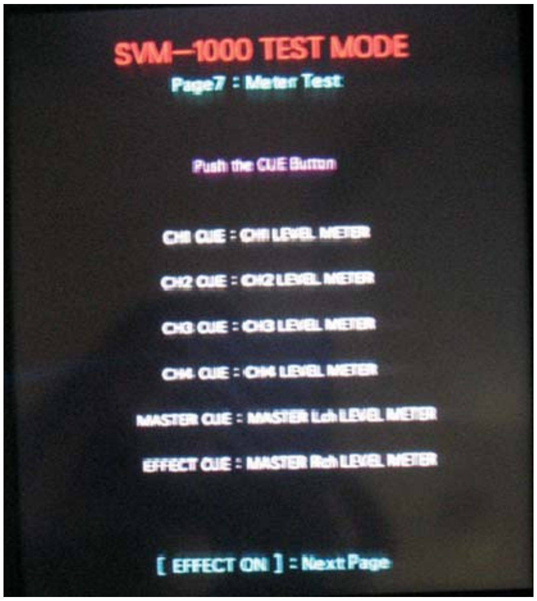
CH3	VIDEO TRIM	0511
	AUDIO TRIM	0265
	EQ HI	0516
	MID	0518
	LOW	0518
	CH FADER	1021
CH4	VIDEO TRIM	0214
	AUDIO TRIM	0250
	EQ HI	0516
	MID	0521
	LOW	0512
	CH FADER	1021
CROSS FADER		1022
VIDEO MASTER LEVEL		0517
AUDIO MASTER LEVEL		0720
MASTER BALANCE		0522
BOOTH MONITOR		0801

[EFFECT ON] : Next Page

The A/D-converted values of the volume control settings are numerically displayed in the range from 0 to 1023.

Page6 : METER TEST

Mode to check the LED segments of the meters by turning them on one by one



SVM–1000 TEST MODE

Page7 : Meter Test

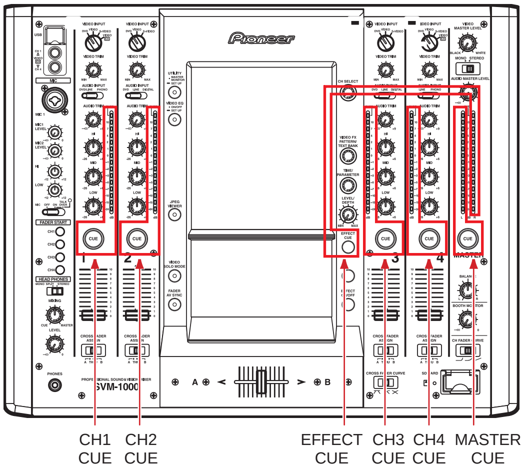
Push the CUE Button

CH1 CUE : CH1 LEVEL METER
CH2 CUE : CH2 LEVEL METER
CH3 CUE : CH3 LEVEL METER
CH4 CUE : CH4 LEVEL METER
MASTER CUE : MASTER Lch LEVEL METER
EFFECT CUE : MASTER Rch LEVEL METER

[EFFECT ON] : Next Page

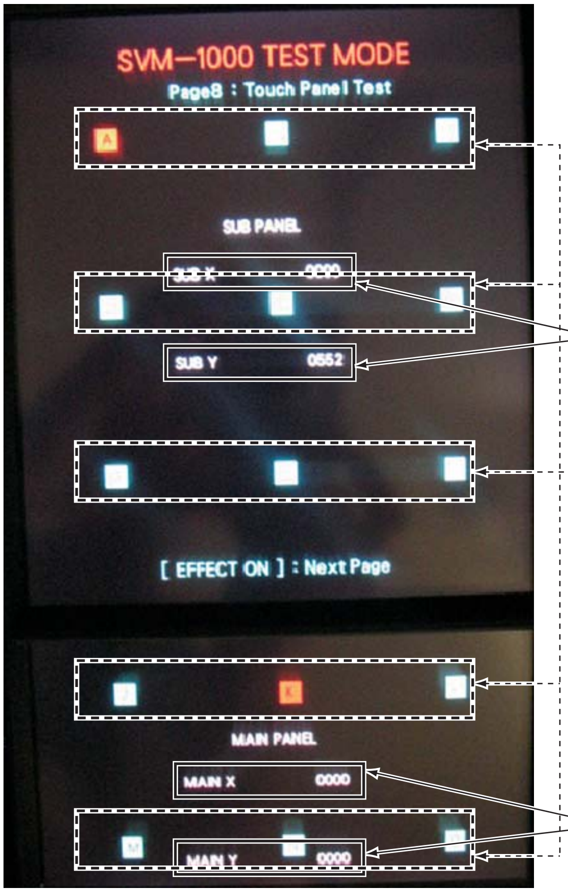
Each time you press the CUE key, the LED segments of the meters for each channel light one by one.
All segments are dark at the beginning. When you press the key again after your 15th press of the key (when the top LED is lit), all segments will go dark again, permitting the test to be repeated from the beginning.

CH1 CUE : CH1 level meter
CH2 CUE : CH2 level meter
CH3 CUE : CH3 level meter
CH4 CUE : CH4 level meter
MASTER CUE : MASTR L CH level meter
EFFECT CUE : MASTR R CH level meter



Page7 : TOUCH PANEL TEST

Mode to indicate the coordinates on the touch panels being touched



SVM–1000 TEST MODE

Page8 : Touch Panel Test

SUB PANEL

SUB X 0000

SUB Y 0552

[EFFECT ON] : Next Page

MAIN PANEL

MAIN X 0000

MAIN Y 0000

Check the responses of the touch panels.
Press the touch-panel check buttons. Proper responses of the buttons mean that the touch panels function properly.
If there is any misalignment, activate Service mode to re-calibrate the panels.

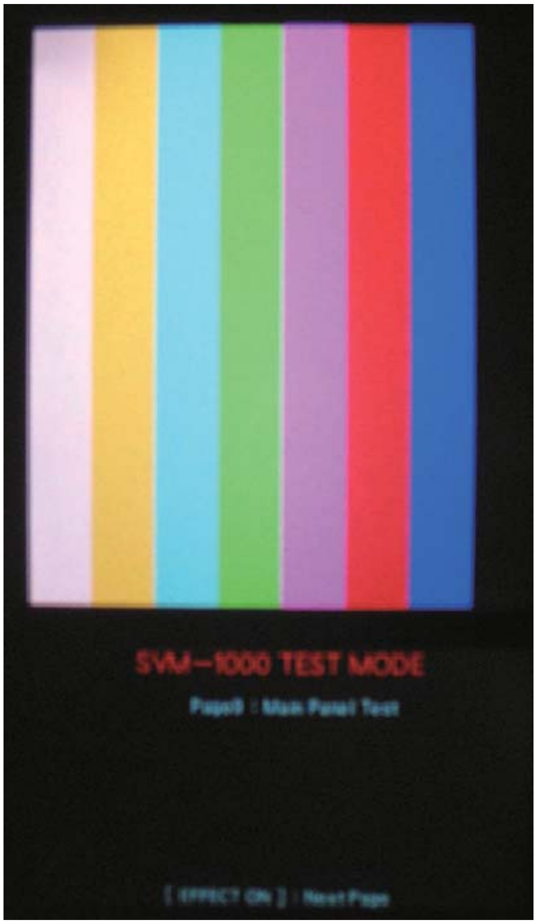
While you are touching the lower (bottom) touch panel,
the corresponding coordinates on the panel are displayed.

Touch-panel check buttons
When you touch them correctly, the color of each touched button changes between blue and red.

While you are touching the upper (top) touch panel,
the corresponding coordinates on the panel are displayed.

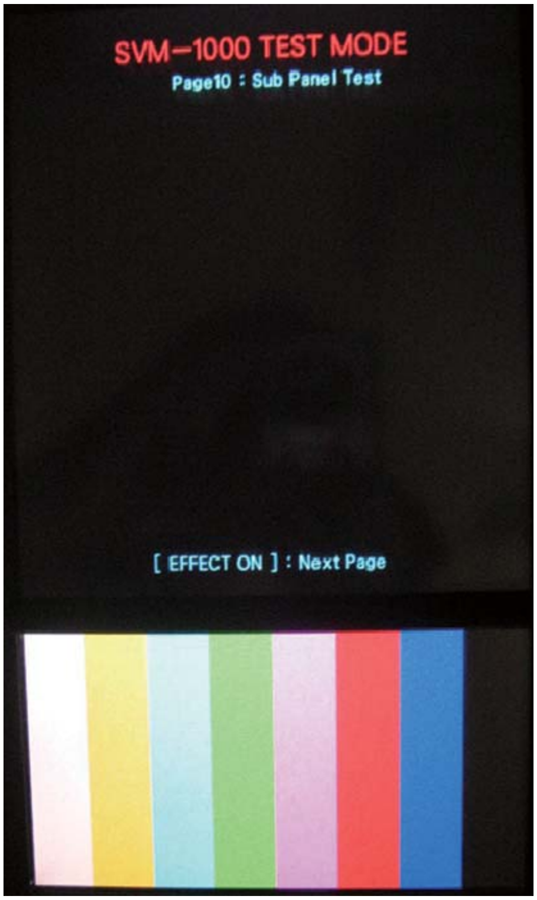
Page8-1 : MAIN PANEL TEST

For checking the display colors on the main panel (color bars)
Check the LCD display of the main panel.
Confirm that the colors are displayed properly.


SVM–1000 TEST MODE
Page9 : Main Panel Test
[EFFECT ON] : Next Page

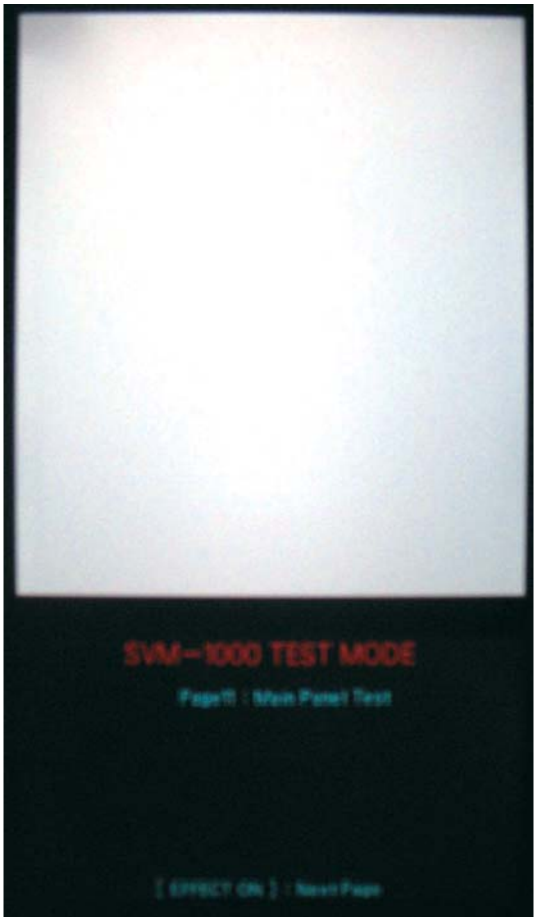
Page8-2 : SUB PANEL TEST

For checking the display colors on the sub-panel (color bars)
Check the LCD display of the sub-panel.
Confirm that the colors are displayed properly.


SVM–1000 TEST MODE
Page10 : Sub Panel Test
[EFFECT ON] : Next Page

Page9-1 : MAIN PANEL TEST

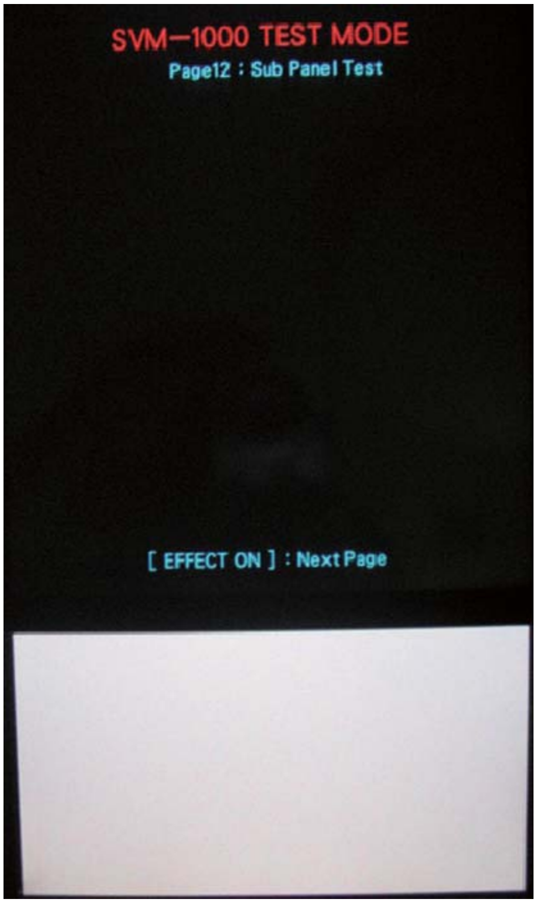
For checking for defective dots on the main panel (white)
Check the LCD display of the main panel.
Confirm that there are no defective dots (no dots that do not become white).



SVM–1000 TEST MODE
Page11 : Main Panel Test
[EFFECT ON] : Next Page

Page9-2 : SUB PANEL TEST

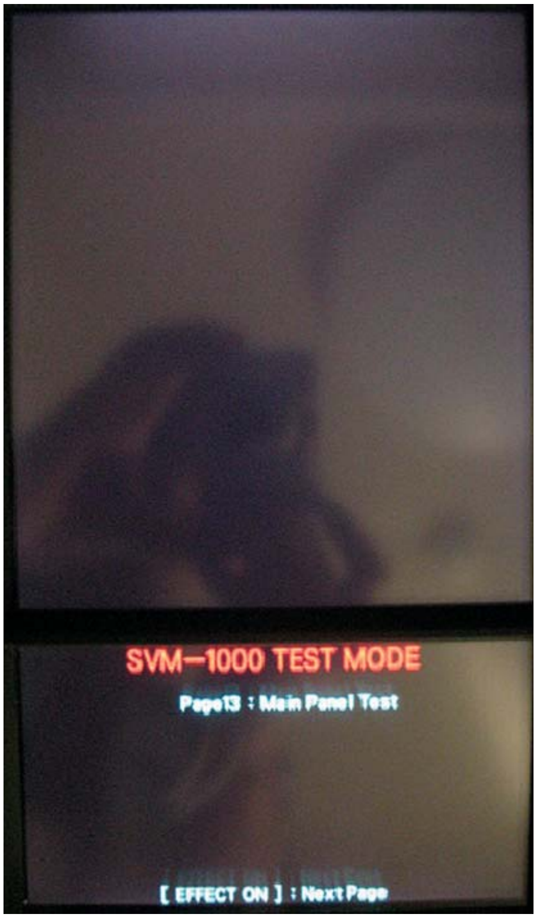
For checking for defective dots on the sub-panel (white)
Check the LCD display of the sub-panel.
Confirm that there are no defective dots (no dots that do not become white).



SVM–1000 TEST MODE
Page12 : Sub Panel Test
[EFFECT ON] : Next Page

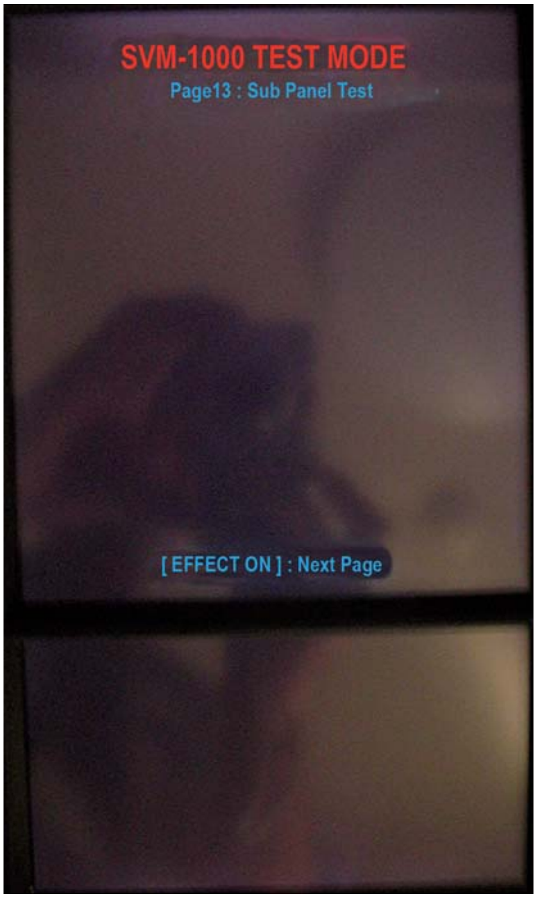
Page10-1 : MAIN PANEL TEST

For checking the luminescent spots on the main panel (black)
Check the LCD of the main panel.
Confirm that there is no colored block remaining.


SVM–1000 TEST MODE
Page13 : Main Panel Test
[EFFECT ON] : Next Page

Page10-2 : SUB PANEL TEST

For checking the luminescent spots on the sub-panel (black)
Check the LCD of the sub-panel.
Confirm that there is no colored block remaining.


SVM-1000 TEST MODE
Page13 : Sub Panel Test
[EFFECT ON] : Next Page

6.7 HOW TO USB DOWNLOAD

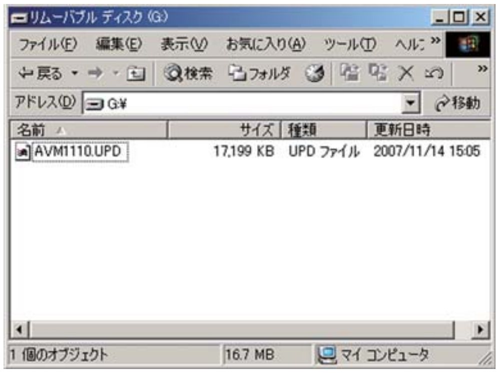
Necessary items

SVM-1000
USB flash memory
Firmware file (AVMxxxx.upd)

Procedures

① Place the firmware file in the root directory of the USB flash memory.

Note: Do not place any files in this folder other than ones with the .upd extension.



リムーバブル ディスク (G:)

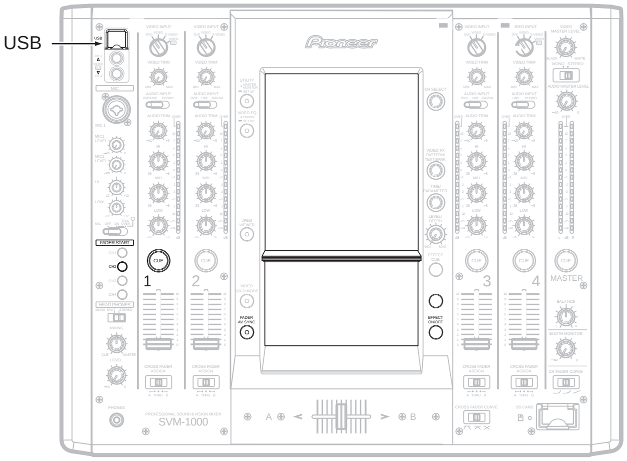
ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ

アドレス(D) G:¥

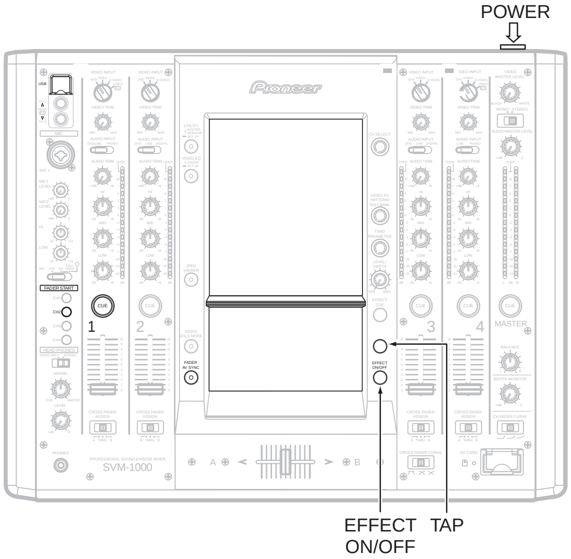
名前	サイズ	種類	更新日時
AVM1110.UPD	17,199 KB	UPD ファイル	2007/11/14 15:05

1 個のオブジェクト 16.7 MB マイ コンピュータ

② Plug the USB memory device into the USB slot located on the upper panel.

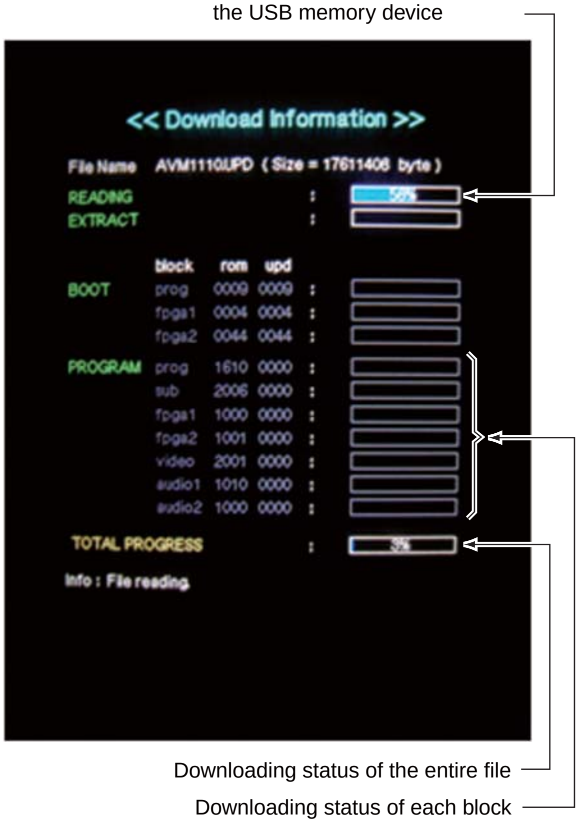


③ Hold the POWER key pressed for 5 seconds while holding the EFFECT ON/OFF and TAP keys pressed.



④ "Download Information" will be displayed on the LCD display shortly.

Progress of reading the file from the USB memory device

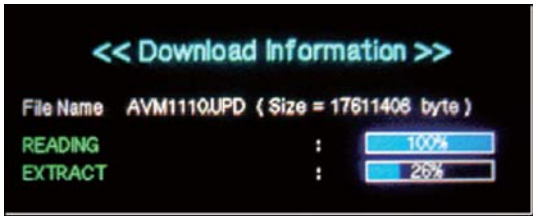


```
<< Download Information >>

File Name   AVM1110.UPD  ( Size = 17611406  byte )
READING                         :  [ 50% ]
EXTRACT                         :  [     ]

            block   rom   upd
BOOT        prog    0009  0009  :  [     ]
            fpga1   0004  0004  :  [     ]
            fpga2   0044  0044  :  [     ]

PROGRAM     prog    1610  0000  :  [     ]
            sub     2006  0000  :  [     ]
            fpga1   1000  0000  :  [     ]
            fpga2   1001  0000  :  [     ]
            video   2001  0000  :  [     ]
            audio1  1010  0000  :  [     ]
            audio2  1000  0000  :  [     ]

TOTAL PROGRESS                  :  [ 3% ]

Info : File reading.
```

Downloading status of the entire file

Downloading status of each block

⑤ The status of copying download data from the USB memory device is indicated by the READING status bar located at the top of the LCD display. After READING goes up to 100%, you can pull out the USB memory device.



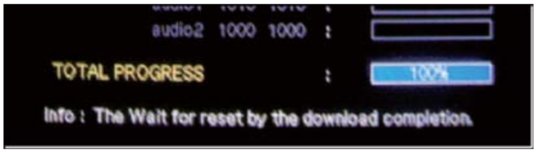
<< Download Information >>

File Name AVM1110.UPD (Size = 17611408 byte)

READING : 100%

EXTRACT : 26%

⑥ The status of data downloading is indicated by the TOTAL PROGRESS status bar located at the bottom of the LCD display.
After TOTAL PROGRESS goes up to 100%, updating is completed.



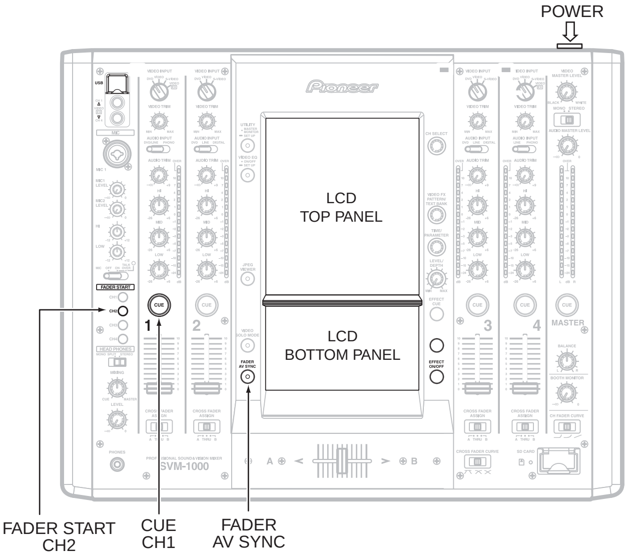
audio2 1000 1000 :

TOTAL PROGRESS : 100%

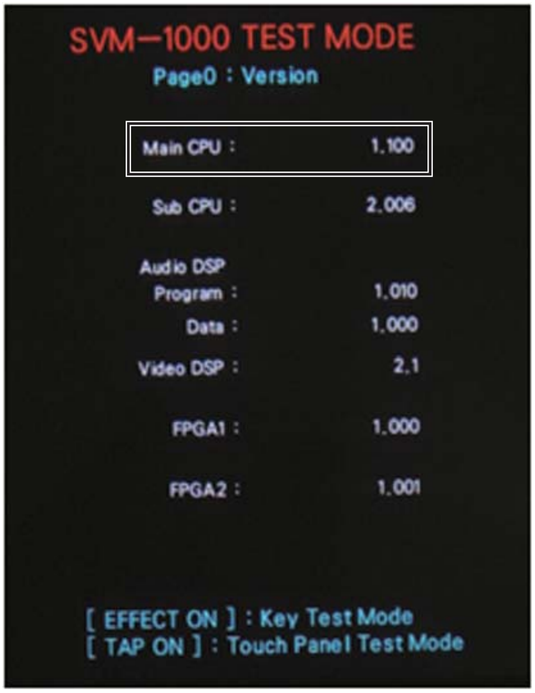
Info : The Wait for reset by the download completion.

⑦ Turn the power off.

⑧ Hold the POWER key pressed while holding the FADER START CH2, CUE CH1, and FADER AV SYNC keys pressed.
Hold these keys pressed until animation of the PRO DJ logo is finished.



⑨ Check the version.
The version of the Main CPU is also the version of the main unit.



SVM–1000 TEST MODE

Page0 : Version

Main CPU : 1.100

Sub CPU : 2.006

Audio DSP
Program : 1.010
Data : 1.000

Video DSP : 2.1

FPGA1 : 1.000

FPGA2 : 1.001

[EFFECT ON] : Key Test Mode
[TAP ON] : Touch Panel Test Mode

⑩ Turn the power off.

Notes:
- As downloading of Audio DSP (program and data) is not protected, if downloading fails, the system cannot restart.
- NEVER turn the power off while downloading is in progress.

Notes:
When the version of the firmware is upgraded
The hardware settings are stored in memory.
Note: Regarding the utility setups, all user settings other than MIDI CHANNEL and KEYBOARD LANGUAGE will be deleted.
Make note of them then make the same settings after replacement.

6.8 NOTES ON VARIOUS SETTINGS WHEN THE UNIT ARE REPLACED

Notes

① When the MAIN unit is replaced
Depending on the level of failure, if the user settings are obtainable before replacement, make note of them, as mentioned in ① above, then make the same settings after replacement.
Then perform calibration of the Touch Panel and set the video system according to the destination.
② If the Touch panel or LCD panel is replaced, perform calibration of the Touch panel in Service mode.

Factory setting

The factory settings will be restored when FACTORY PRESET is pressed on the HARDWARE SETUP screen.
If the MAIN Assy (Touch Panel) is replaced, the factory setting values must be set manually.
The factory setting values can be accessed from Service mode.

HARDWARE SETUP	SYSTEM	VIDEO SYSTEM PAL /NTSC (7.5)/NTSC(0)
	TOUCH PANEL	Calibration information

The video system must be set according to the destination.

Destination		Setting Value
North America	/KUCXJ	NTSC (7.5IRE)
Europe	/WYXJ5	PAL
Japan	/JJXJ	NTSC (0IRE)
China	/WAXJ5	PAL
General	/TLXJ	NTSC (0IRE)

User Data

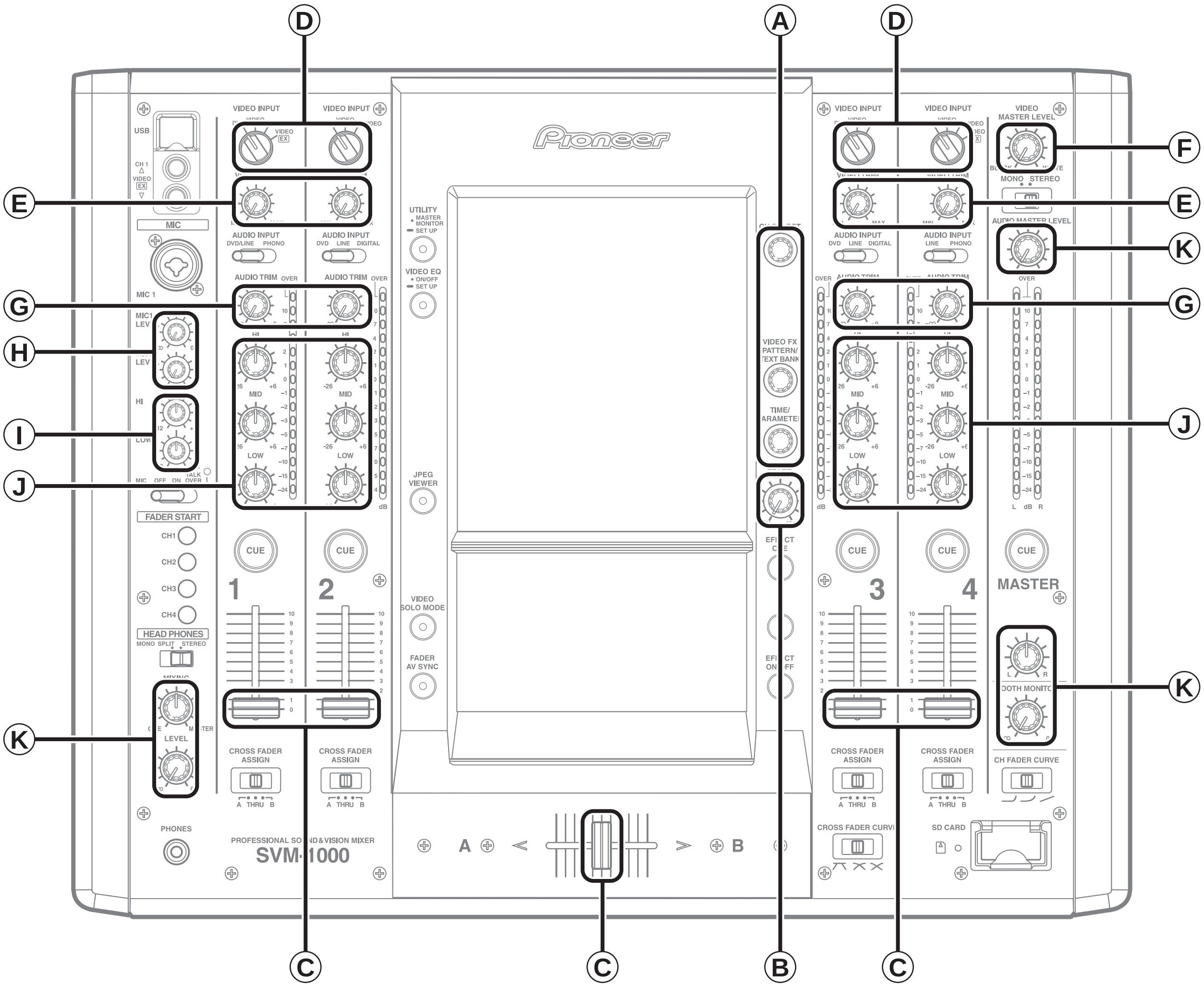
The following items can be set and stored by the user.
Set the user data if the part is replaced with a repaired part.

HARDWARE SETUP (Press the POWER switch while holding the UTILITY button pressed.)	MIC	OUTPUT BOOTH MONITOR ON / OFF
		TALKOVER THRESHOLD -25dB / -20dB / -15dB / -10dB
		TALKOVER LEVEL -25dB / -20dB / -15dB / -10dB
	MASTER OUT	BRIGHTNESS
		CONTRAST
		COLOR
		SATURATION
		SHARPNESS
	MONITOR OUT	BRIGHTNESS
		CONTRAST
		COLOR
		SATURATION
		SHARPNESS
	SYSTEM	VIDEO SYSTEM PAL /NTSC (7.5)/NTSC(0)
		DIGITAL OUT MAX LEVEL -19dB / -15dB / -10dB / -5dB
	LCD	BACKLIGHT
	TOUCH PANEL	Calibration information
UTILITY SETUP (Hold the UTILITY button pressed.)	KEYBOARD LANGUAGE	US ENGLISH / UK ENGLISH / FRANCAIS / DEUTSCH / ITALIANO / NEDERLANDS/ESPANOL / PORTUGUES
	MIDI	MIDI CHANNEL

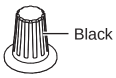
7. DISASSEMBLY

Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

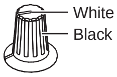
Knobs and Volumes Location


D
A
D
E
F
E
K
G
G
H
I
J
J
K
K
C
C
B
C
Pioneer
CUE
1
2
3
4
MASTER
PROFESSIONAL SOUND&VISION MIXER
SVM-1000

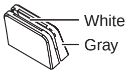
Ⓐ EFFECT SELECT Knob
(DAA1207) ×3



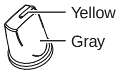
Ⓑ EFFECT DEPTH Knob
(DAA1208) ×1


White
Black

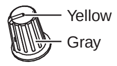
Ⓒ Slider Knob
(DAC2388) ×5



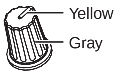
Ⓓ SELECT Knob
(DAA1209) ×4


Yellow
Gray

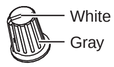
Ⓔ Rotary SW Knob VT
(DAA1215) ×4


Yellow
Gray

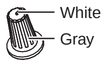
Ⓕ Rotary SW Knob MAV
(DAA1218) ×1


Yellow
Gray

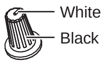
Ⓖ Rotary SW Knob AT
(DAA1221) ×4



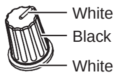
Ⓗ Rotary SW Knob S (B)
(DAA1178) ×2



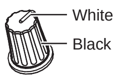
Ⓘ Rotary SW Knob S (A)
(DAA1177) ×2


White
Black

Ⓙ Rotary SW Knob (B)
(DAA1176) ×12


White
Black
White

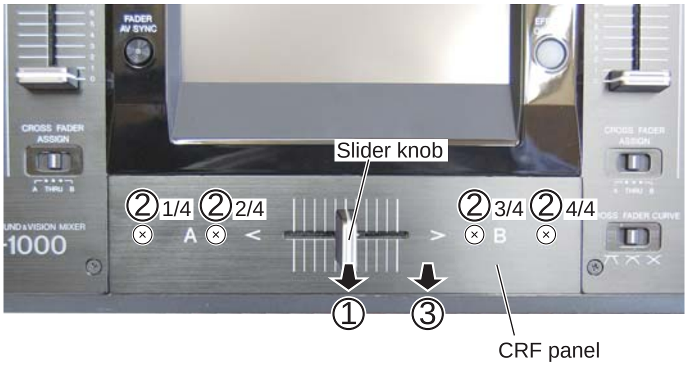
Ⓚ Rotary SW Knob (MA)
(DAA1198) ×5


White
Black

Disassembly

1 Cross Fader Section

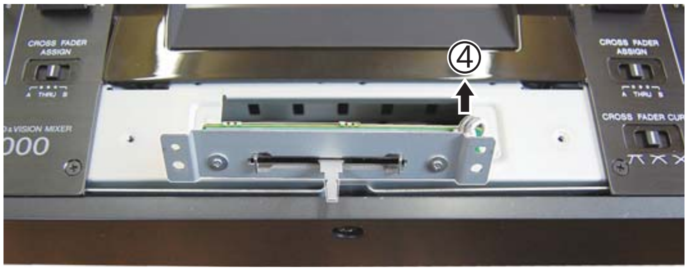
① Remove the slider knob.
② Remove the four screws.
③ Remove the CRF panel.


Slider knob
②1/4
②2/4
②3/4
②4/4
①
③
CRF panel

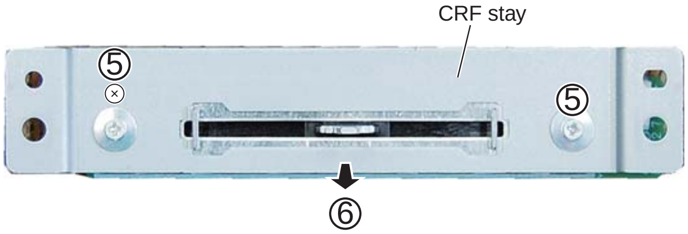
■ Tightening sequence for the screws when assembling

②1/4 ⇨ ②4/4 ⇨ ②2/4 ⇨ ②3/4

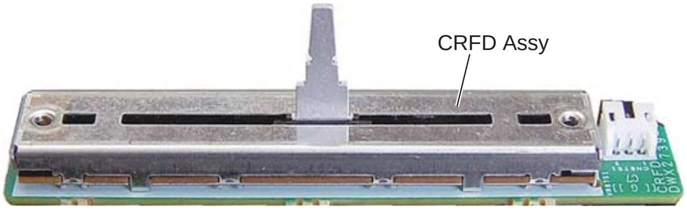
④ Disconnect the one connector.



⑤ Remove the two screws.
⑥ Remove the CRF stay.

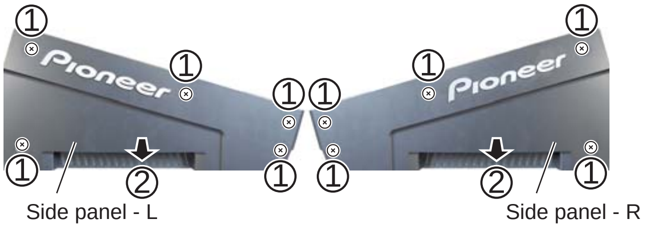

CRF stay
⑤
⑤
⑥

Exchange

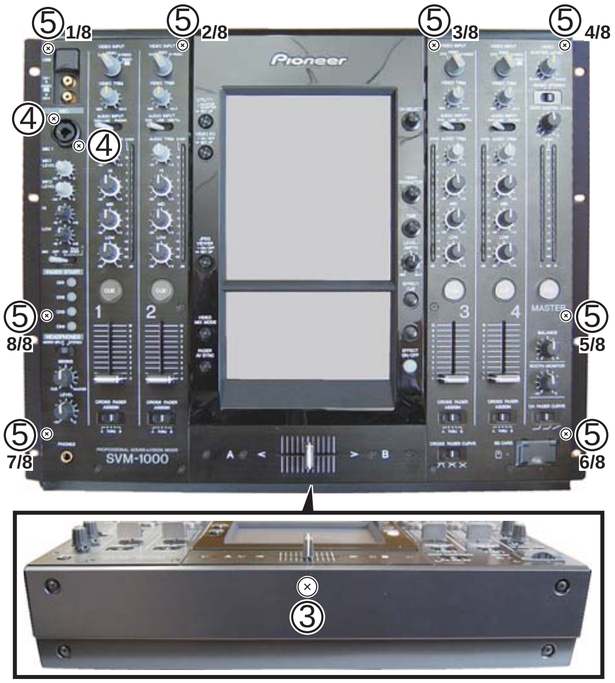


2 Operation Panel Section

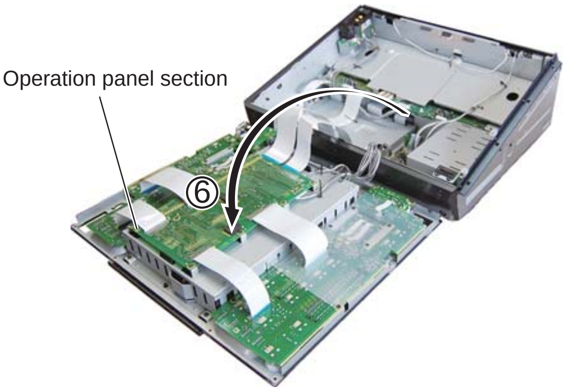
① Remove the ten screws.
② Remove the side panels - L and R.


①
①
①
①
①
①
①
①
①
①
②
②
Side panel - L
Side panel - R

③ Remove the one screw.
④ Remove the two screws.
⑤ Remove the eight screws.

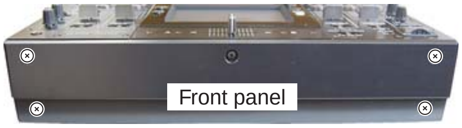

⑤ 1/8
⑤ 2/8
⑤ 3/8
⑤ 4/8
④
④
⑤ 8/8
⑤ 5/8
⑤ 7/8
⑤ 6/8
③

⑥ Pull out the operation panel section.


Operation panel section
⑥

Procedure in re-assembling

- Remove the four screws of the front panel.


Front panel

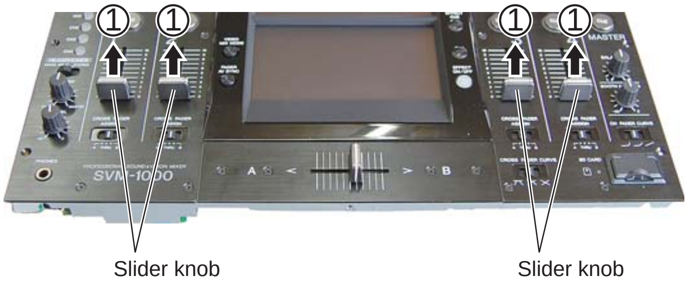
- Remove the front panel.
- Attach the operation panel section to the chassis, and tighten the ten screws in the following order.

⑤ 8/8 → ⑤ 5/8 → ⑤ 1/8 → ⑤ 6/8 →
⑤ 7/8 → ⑤ 4/8 → ⑤ 2/8 → ⑤ 3/8 ➡ ④ ×2

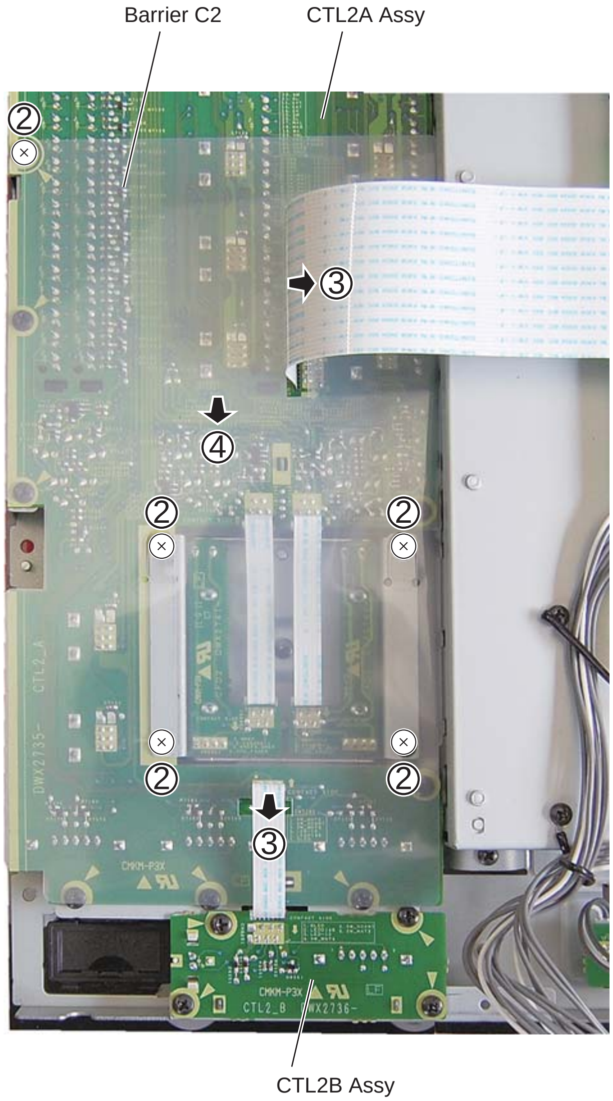
- Attach the front panel, and tighten the five screws.
- Attach the side panels - L, R, and tighten the ten screws.

3 CH Fader Section

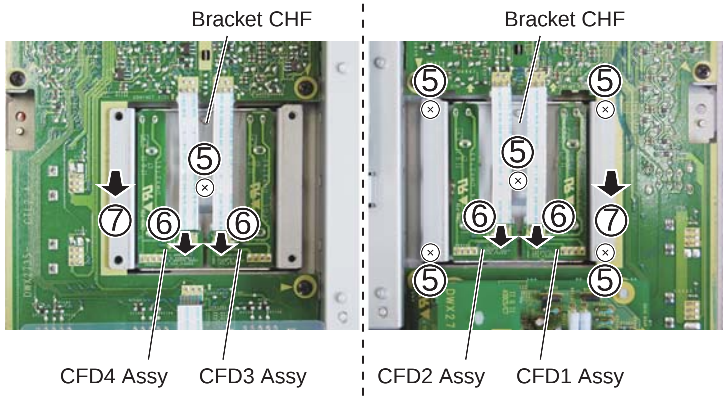
① Remove the four slider knobs.


①
①
①
①
Slider knob
Slider knob

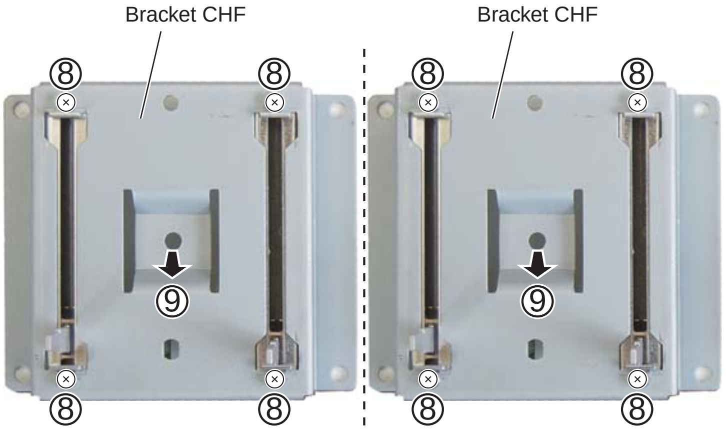
② Remove th five screws.
③ Disconnect the two flexible cables.
④ Remove the barrier C2.


Barrier C2
CTL2A Assy
②
③
④
②
②
②
②
③
CTL2B Assy

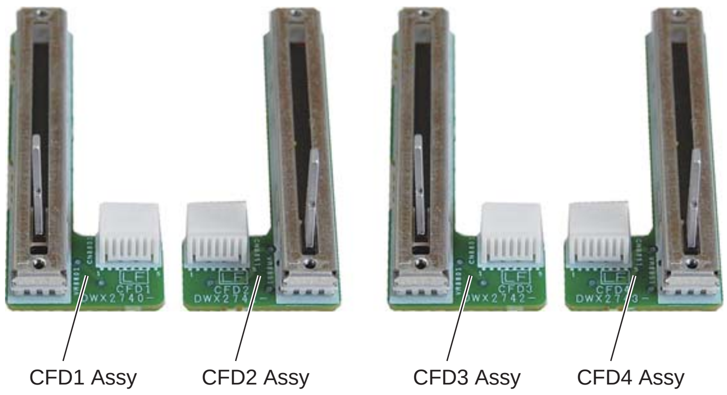
⑤ Remove the six screws.
⑥ Disconnect the four flexible cables.
⑦ Remove the bracket CHF with PC board.


Bracket CHF
Bracket CHF
⑤
⑤
⑤
⑤
⑦
⑥
⑥
⑥
⑥
⑦
⑤
⑤
CFD4 Assy
CFD3 Assy
CFD2 Assy
CFD1 Assy

⑧ Remove the eight screws.
⑨ Remove the bracket CHF.

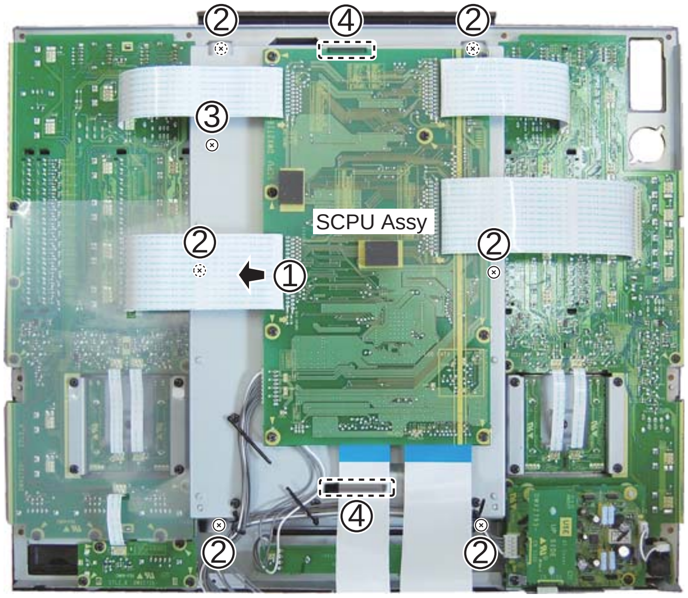

Bracket CHF
Bracket CHF
⑧
⑧
⑧
⑧
⑨
⑨
⑧
⑧
⑧
⑧

Exchange


CFD1 Assy
CFD2 Assy
CFD3 Assy
CFD4 Assy

4 LCD Panel Section

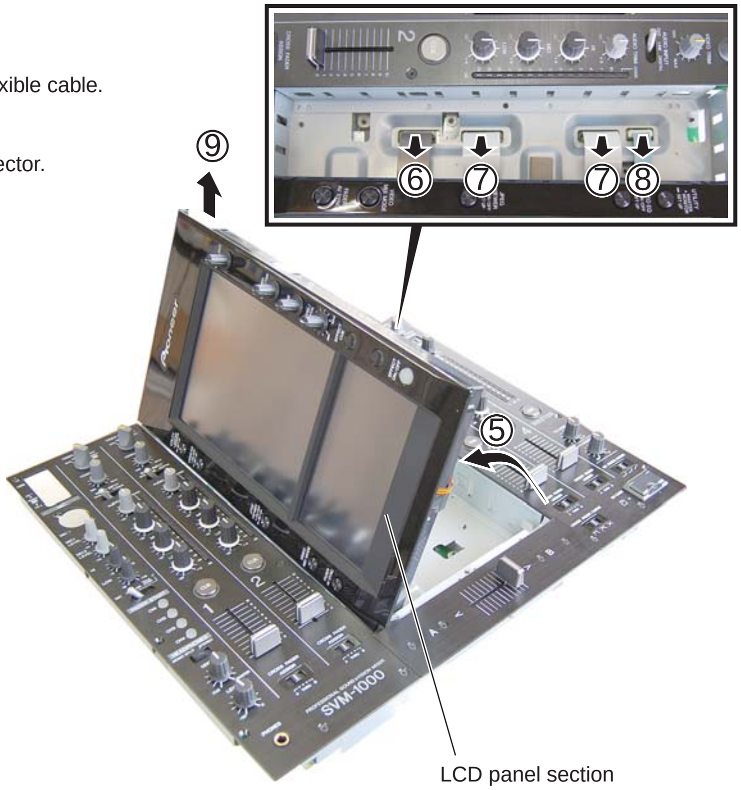
① Disconnect the one flexible cable.
② Remove the six screws.
③ Remove the one screw.
④ Unhook the two hooks.



CAUTION

When reverse the operation panel section,
support it so that the LCD panel section does not fall.

⑤ Pull out the LCD panel section.
⑥ First unlock the one flexible cable, then disconnect the flexible cable.
⑦ Disconnect the two flexible cables.
⑧ First unlock the one connector, then disconnect the connector.
⑨ Remove the LCD panel sectin.



⑦ Remove the two screws.

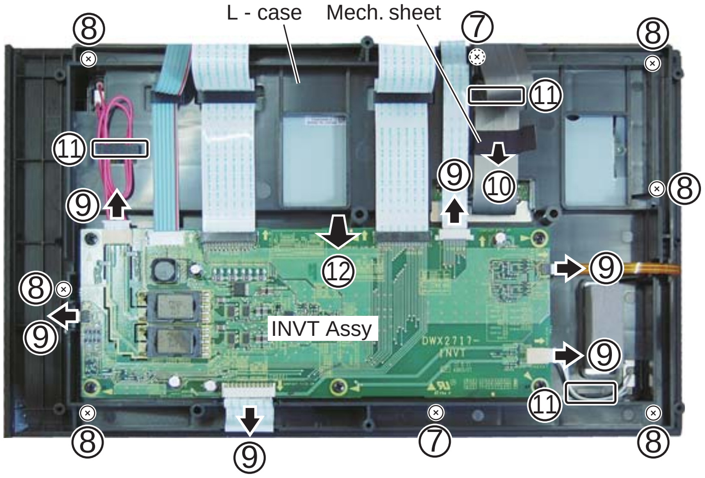
⑧ Remove the six screws.

⑨ Disconnect the four flexible cables and two connectors.

⑩ Remove the mech. sheet.

⑪ Unhook the three jumper wires.

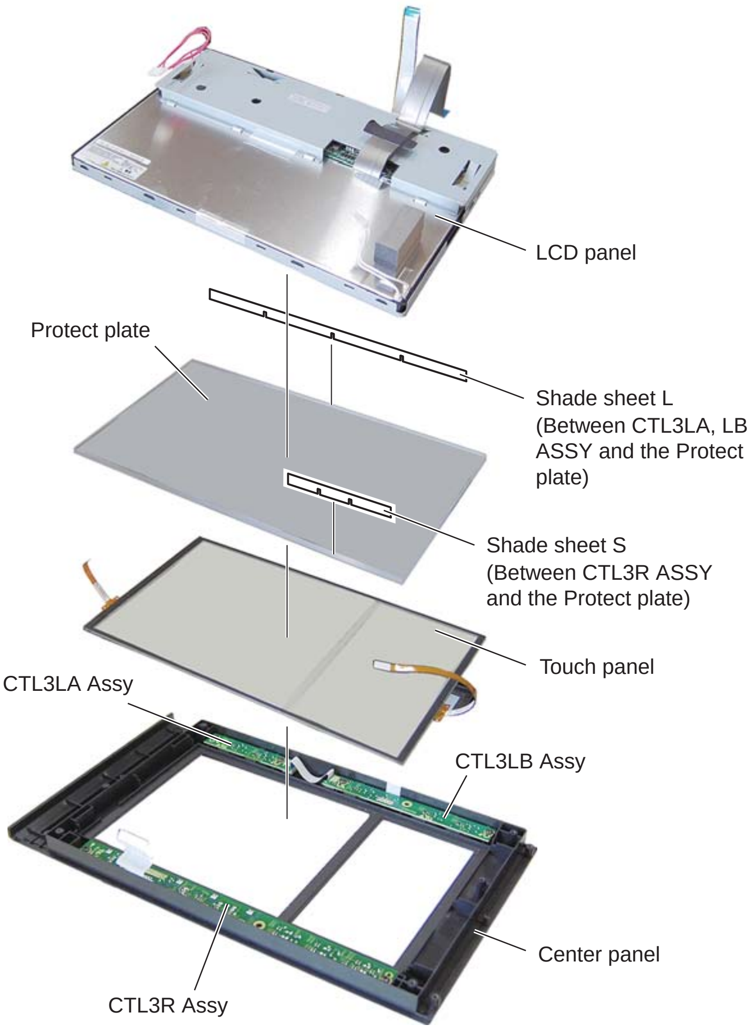
⑫ Remove the L - case with PC board.


L - case
Mech. sheet
⑦
⑧
⑧
⑪
⑪
⑨
⑩
⑧
⑨
⑫
⑨
⑧
⑨
INVT Assy
⑨
⑪
⑧
⑨
⑦
⑧

Exchange

Note:
If the Touch panel or LCD panel is replaced, perform calibration of the Touch panel.
For details, see "6. SERVICE MODE".

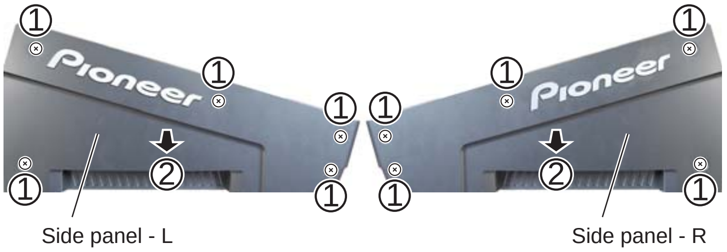
How to attach Shade Sheets L and S:
After attaching the Protect Plate to the Touch Panel, align the cutouts of Shade Sheets L and S with the ribs of the center panel and attach them.


LCD panel
Protect plate
Shade sheet L
(Between CTL3LA, LB ASSY and the Protect plate)
Shade sheet S
(Between CTL3R ASSY and the Protect plate)
Touch panel
CTL3LA Assy
CTL3LB Assy
Center panel
CTL3R Assy

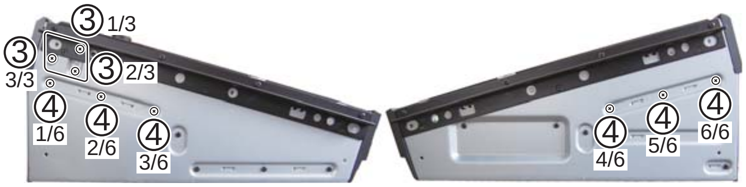
Diagnosis of Main Section

1 3F Section

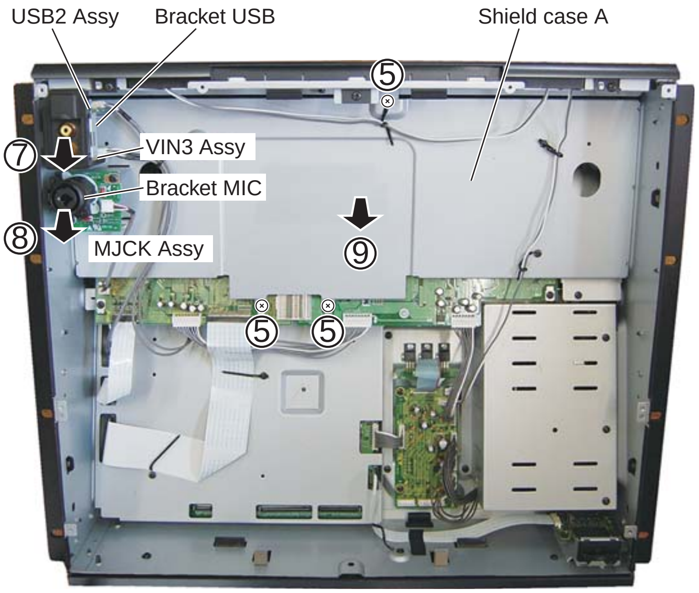
① Remove the ten screws.
② Remove the side panels - L and R.


①
①
①
①
①
①
①
①
①
①
②
②
Side panel - L
Side panel - R

③ Remove the three screws.
④ Remove the six screws.


③ 1/3
③ 3/3
③ 2/3
④ 1/6
④ 2/6
④ 3/6
④ 4/6
④ 5/6
④ 6/6

⑤ Remove the three screws.
⑥ Disconnect cables, connectors, as required.
⑦ Remove the bracket USB with PC board.
⑧ Remove the bracket MIC with PC board.
⑨ Remove the shield case A with PC board.


USB2 Assy
Bracket USB
Shield case A
⑤
⑦
VIN3 Assy
Bracket MIC
⑧
MJCK Assy
⑨
⑤
⑤

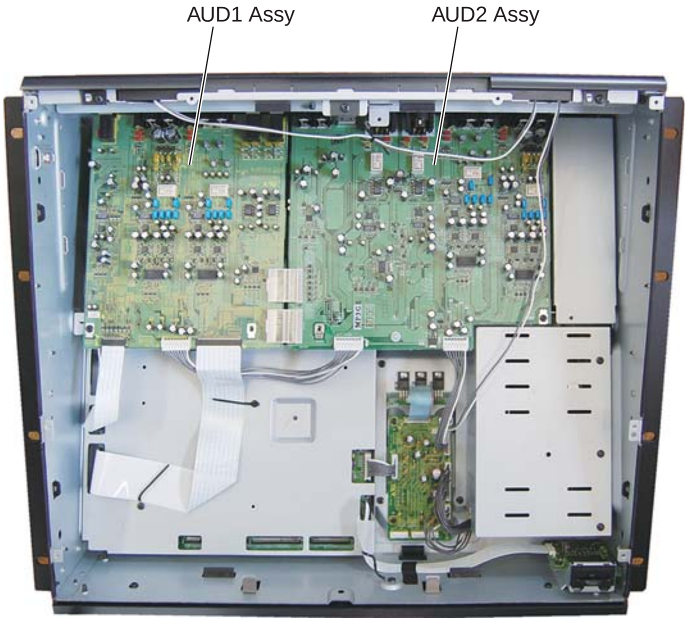
■ Tightening sequence for the screws when assembling

④$_{4/6}$ ⇨ ④$_{6/6}$ ⇨ ④$_{5/6}$
↓
④$_{3/6}$ ⇨ ④$_{1/6}$ ⇨ ④$_{2/6}$
↓
③$_{1/3}$ ⇨ ③$_{2/3}$ ⇨ ③$_{3/3}$
↓
⑤ X3

A

Diagnosis

B


AUD1 Assy
AUD2 Assy

C

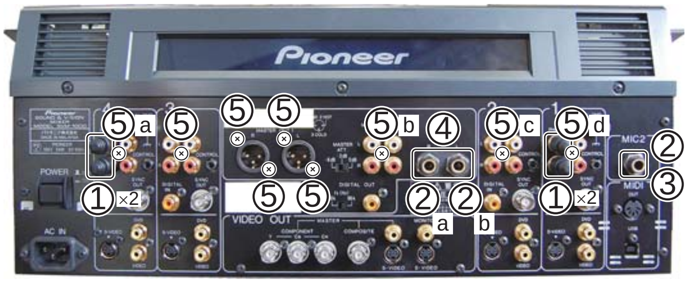
D

E

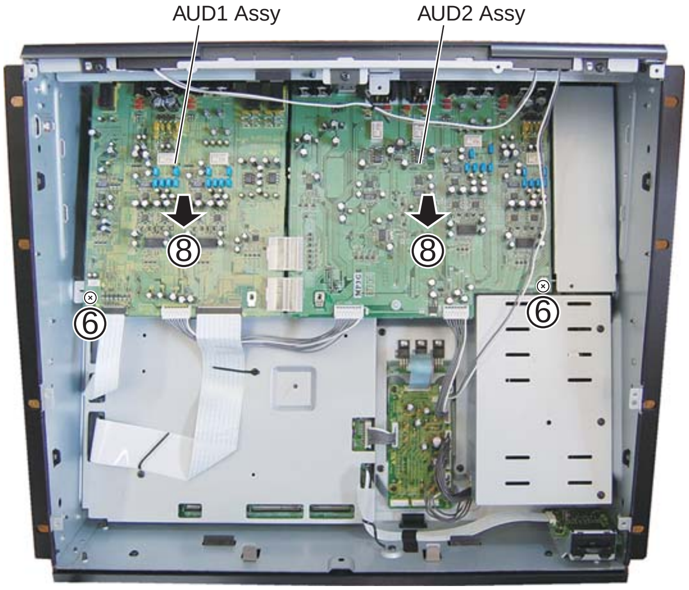
F

2 2F Section

① Remove the four short-pin plugs.
② Remove th three nuts.
③ Remove the Phone washer.
④ Remove the Phone spacer.
⑤ Remove the nine screws.


⑤ a
⑤
⑤
⑤
⑤ b
④
⑤ c
⑤ d
② c
MIC2
① ×2
⑤
⑤
② a
② b
① ×2
③
MIDI
VIDEO OUT

⑥ Remove the two screws.
⑦ Disconnect cables, connectors, as required.
⑧ Remove the AUD1 and AUD2 Assemblies.


AUD1 Assy
AUD2 Assy
⑧
⑧
⑥
⑥

Tightening sequence for the screws when assembling

⑤$_a$ ⇨ ⑤$_b$ ⇨ ⑤$_c$ ⇨ ⑤$_d$ ⇨ ⑤other

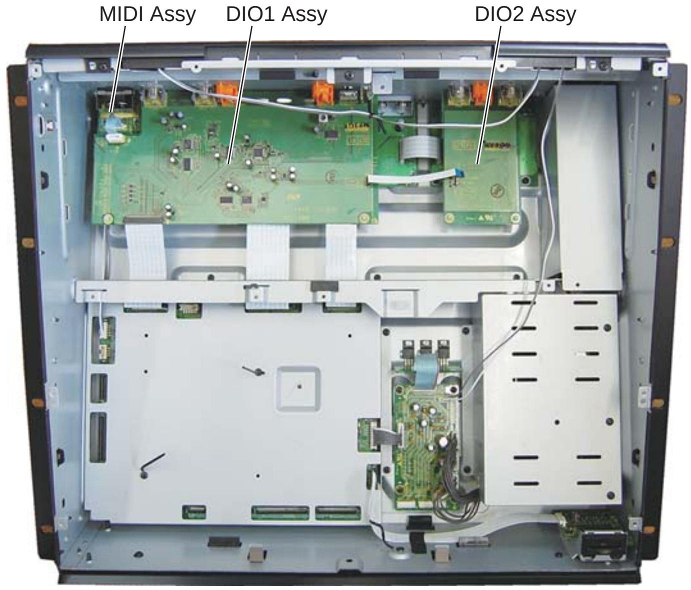
④ Insert the Phone spacer.

③ Insert the Phone washer.

②$_a$ ⇨ ②$_c$ ⇨ ②$_b$

⑥ X2

Diagnosis

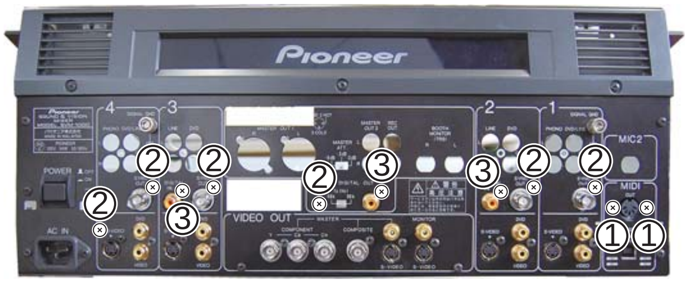

MIDI Assy
DIO1 Assy
DIO2 Assy

3 1F Section

① Remove the two screws.

② Remove the six screws.

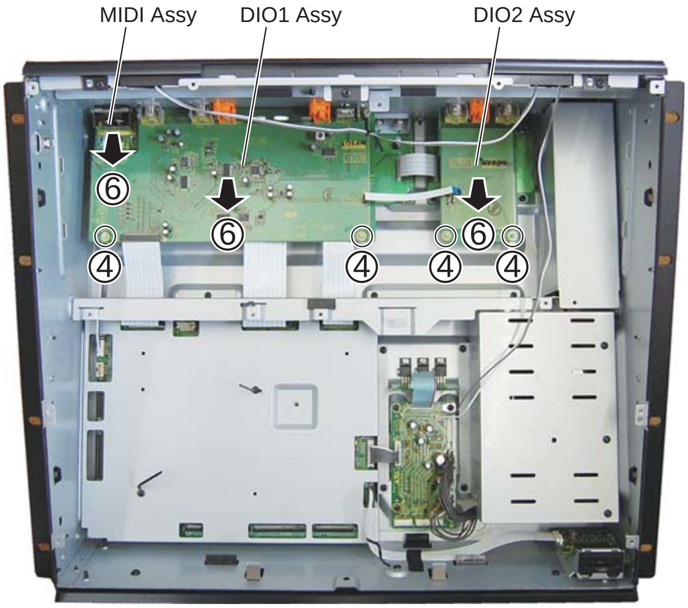
③ Remove the three screws.


Pioneer
②
②
②
②
②
②
③
③
③
①
①

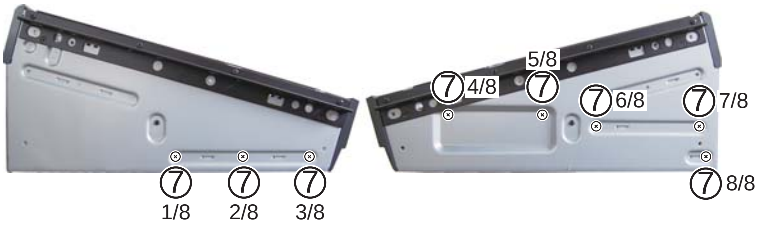
④ Remove the four PCB supports.

⑤ Disconnect cables, connectors, as required.

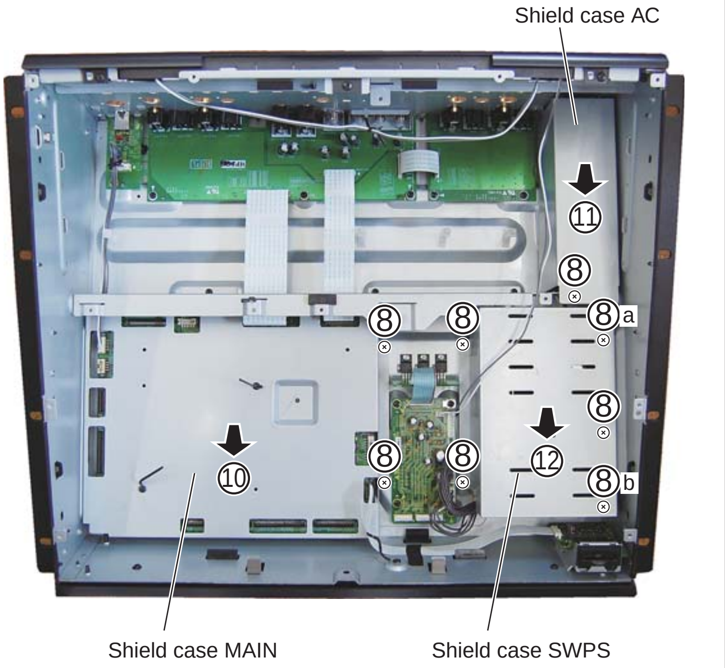
⑥ Remove the DIO1, DIO2 and MIDI Assemblies.


MIDI Assy
DIO1 Assy
DIO2 Assy
⑥
⑥
⑥
④
④
④
④

⑦ Remove the eight screws.


⑦ 1/8
⑦ 2/8
⑦ 3/8
⑦ 4/8
⑦ 5/8
⑦ 6/8
⑦ 7/8
⑦ 8/8

⑧ Remove the eight screws.
⑨ Disconnect cables, connectors, as required.
⑩ Remove the shield case MAIN.
⑪ Remove the shield case AC.
⑫ Remove the shield case SWPS.


Shield case AC
⑪
⑧
⑧
⑧
⑧a
⑧
⑩
⑧
⑧
⑫
⑧b
Shield case MAIN
Shield case SWPS

■ Tightening sequence for the screws when assembling

⑦$_{4/8}$ ⇨ ⑦$_{5/8}$

⑦$_{1/8}$ ⇨ ⑦$_{3/8}$ ⇨ ⑦$_{2/8}$

⑦$_{7/8}$ ⇨ ⑦$_{6/8}$ ⇨ ⑦$_{8/8}$

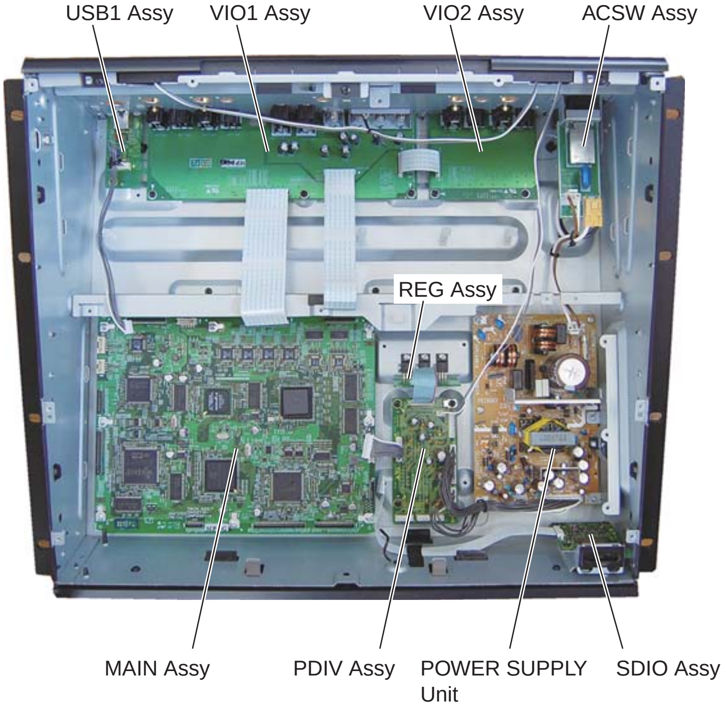
⑧$_{a}$ ⇨ ⑧$_{b}$ ⇨ ⑧$_{other}$

Diagnosis

Note on replacement of the MAIN Assy:
Depending on the level of failure, if the user settings are obtainable before replacement, make note of them then make the same settings after replacement.

- After replacement, perform calibration of the touch panel.
- Set the video system according to the destination.

For details, see "6. SERVICE MODE".


USB1 Assy
VIO1 Assy
VIO2 Assy
ACSW Assy
REG Assy
MAIN Assy
PDIV Assy
POWER SUPPLY Unit
SDIO Assy

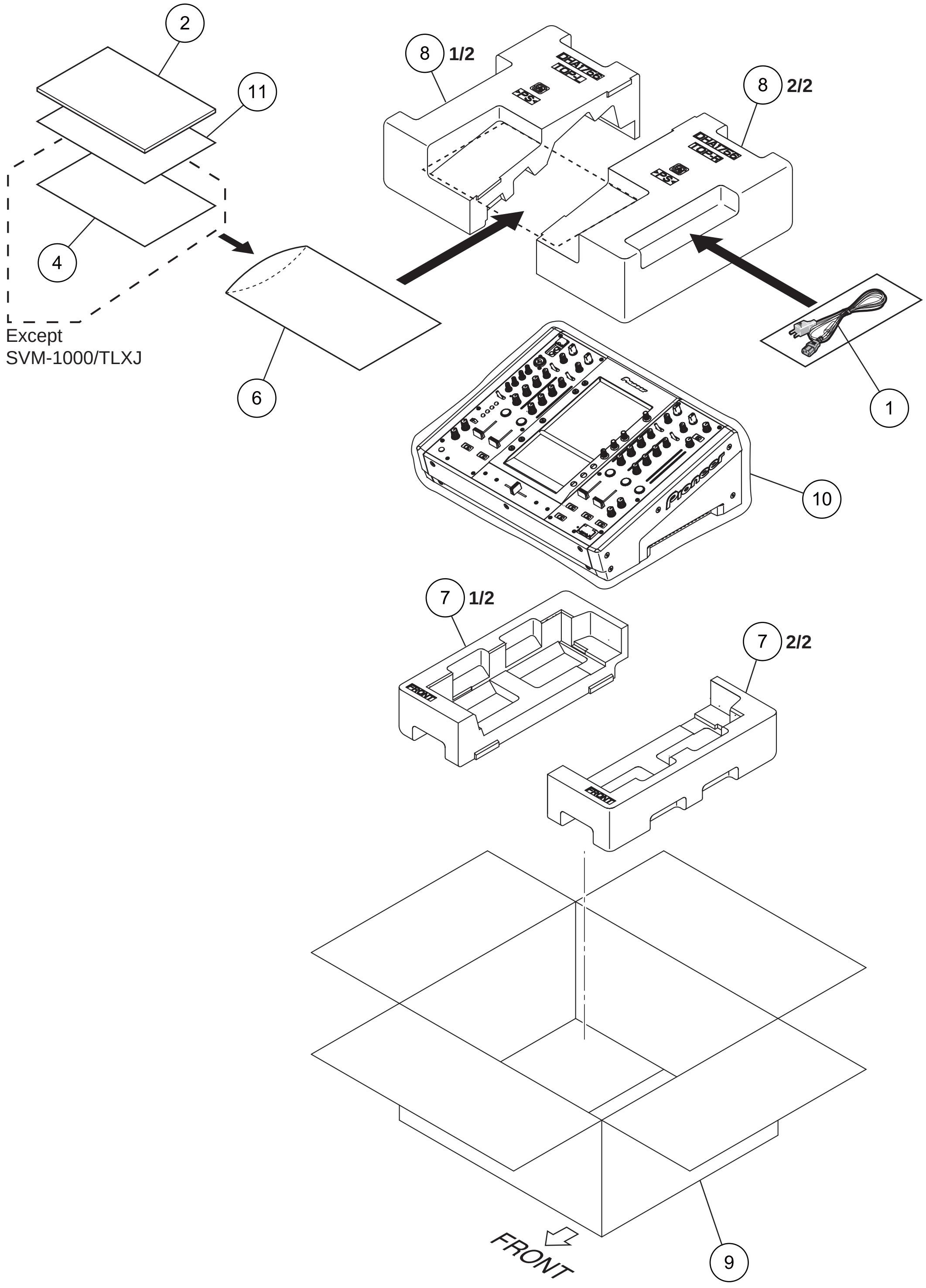
8. EACH SETTING AND ADJUSTMENT

- There is no information to be shown in this chapter.

9. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on product are used for disassembly.*
● *For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)*

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

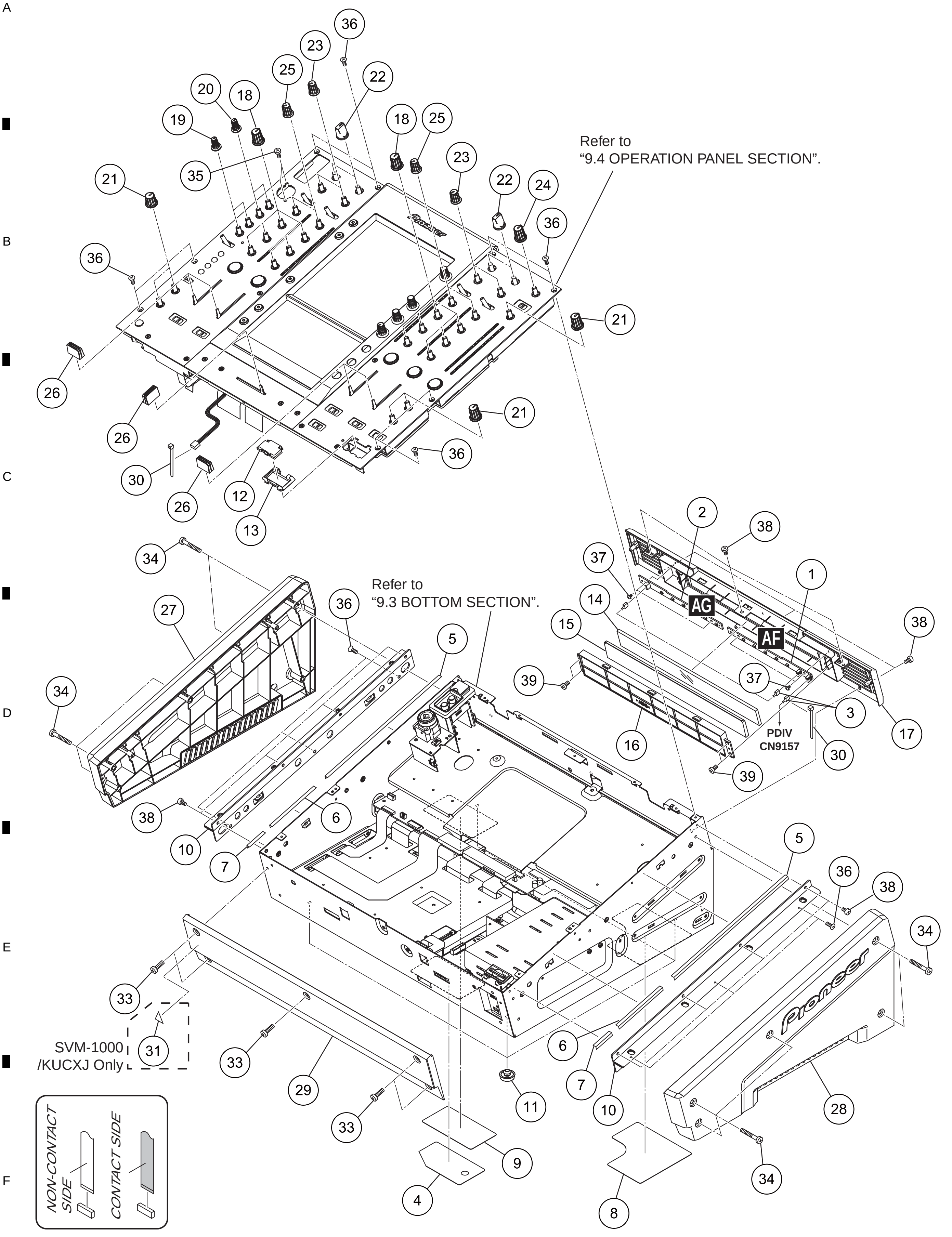
Mark	No.	Description	Part No.
⚠	1	AC Power Cord	See Contrast table (2)
	2	Operating Instructions	See Contrast table (2)
	3	• • • • •	
NSP	4	Warranty Card	See Contrast table (2)
	5	• • • • •	
NSP	6	Polyethylene Bag (0.06 x 230 x 340)	AHG7117
	7	Bottom Pad	DHA1754
	8	Top Pad	DHA1756
	9	Packing Case	See Contrast table (2)
	10	Mirror Mat (1200 x 1000)	DHL1169
NSP	11	Caution Sheet	DRM1305

(2) CONTRAST TABLE

SVM-1000/KUCXJ, WYXJ5 and TLXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SVM-1000 /KUCXJ	SVM-1000 /WYXJ5	SVM-1000 /TLXJ
⚠	1	AC Power Cord	DDG1028	ADG7062	ADG7062
	2	Operating Instructions (English)	DRB1421	Not used	Not used
	2	Operating Instructions (English, French, German, Italian, Dutch, Spanish, Russian)	Not used	DRB1422	Not used
	2	Operating Instructions (English, Spanish, Chinese)	Not used	Not used	DRB1423
NSP	4	Warranty Card	ARY7043	ARY7107	Not used
	9	Packing Case	DHG2719	DHG2718	DHG2720

9.2 EXTERIOR SECTION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13
Refer to
“9.4 OPERATION PANEL SECTION”.
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36
Refer to
“9.3 BOTTOM SECTION”.
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AG
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AF
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PDIV
CN9157
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SVM-1000
/KUCXJ Only
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34
NON-CONTACT SIDE
CONTACT SIDE

(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	ILMR Assy	DWX2722
	2	ILML Assy	DWX2723
	3	Connector Assy	PF02EE-D32
	4	Bottom Sheet	DEC3023
	5	Tape L	DEC3024
	6	Tape M	DEC3025
	7	Tape S	DEC3026
	8	Bottom Sheet R	DEC3035
	9	Bottom Sheet L	DEC3036
	10	Rack Mount Bracket	DNH2790
	11	Leg Assy	REC-434
	12	Card Door	DNK4886
	13	SD Frame	DNK4887
	14	Logo Plate	DAH2493
	15	Diffusion Plate	DAH2494
	16	Reflector	DNK4844
	17	Rear Cover	DNK4845
	18	Rotary SW Knob (B)	DAA1176
	19	Rotary SW Knob S (A)	DAA1177
	20	Rotary SW Knob S (B)	DAA1178

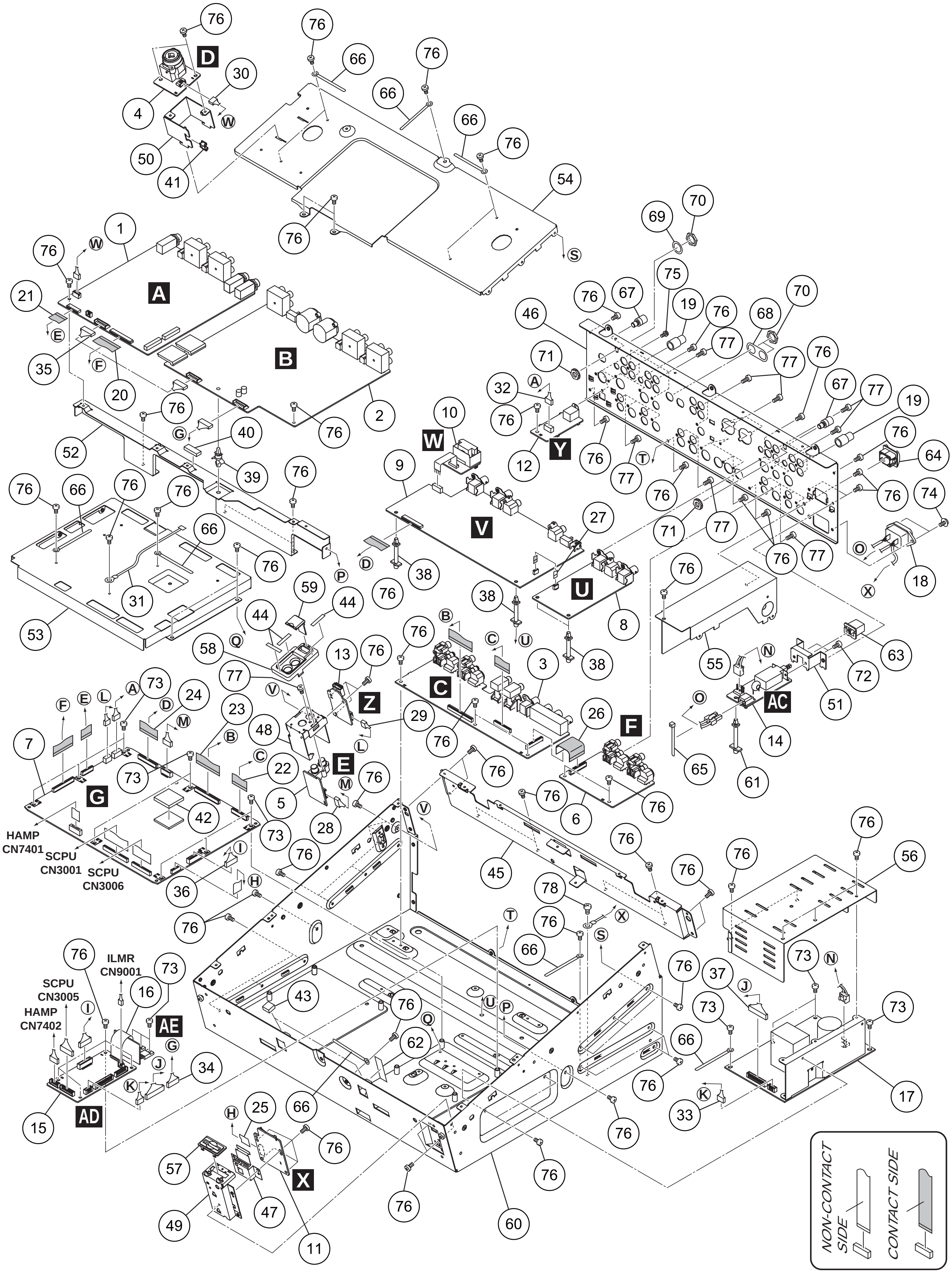
Mark	No.	Description	Part No.
	21	Rotary SW Knob (MA)	DAA1198
	22	SELECT Knob	DAA1209
	23	Rotary SW Knob VT	DAA1215
	24	Rotary SW Knob MAV	DAA1218
	25	Rotary SW Knob AT	DAA1221
	26	Slider Knob	DAC2388
	27	Side Panel - L	DNK4889
	28	Side Panel - R	DNK4890
	29	Front Panel	DNK4891
	30	Binder (SKB-90BK)	ZCA-SKB90BK
NSP	31	Caution Label	See Contrast table (2)
	32	• • • • •	
	33	Screw C4 x 17	DBA1334
	34	Screw C4 x 29	DBA1335
	35	Screw	BPZ30P120FTB
	36	Screw	CCZ30P060FTB
	37	Screw	IPZ20P060FTC
	38	Screw	BBZ30P060FTB
	39	Screw	BPZ30P080FTB

(2) CONTRAST TABLE

SVM-1000/KUCXJ, WYXJ5 and TLXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SVM-1000 /KUCXJ	SVM-1000 /WYXJ5	SVM-1000 /TLXJ
NSP	31	Caution Label	DRW1975	Not used	Not used

9.3 BOTTOM SECTION


A
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G
U
V
W
X
Y
Z
AC
AD
AE
HAMP
CN7401
SCPU
CN3001
SCPU
CN3006
ILMR
CN9001
SCPU
CN3005
HAMP
CN7402
NON-CONTACT SIDE
CONTACT SIDE

(1) BOTTOM SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	AUD1 Assy	DWX2718
	2	AUD2 Assy	DWX2721
	3	VIO1 Assy	DWX2731
	4	MJCK Assy	DWX2738
	5	VIN3 Assy	DWX2733
	6	VIO2 Assy	DWX2732
	7	MAIN Assy	DWX2715
	8	DIO2 Assy	DWX2719
	9	DIO1 Assy	DWX2724
	10	MIDI Assy	DWX2751
	11	SDIO Assy	DWX2728
	12	USB1 Assy	DWX2727
	13	USB2 Assy	DWX2720
	14	ACSW Assy	DWX2737
	15	PDIV Assy	DWX2725
	16	REG Assy	DWX2767
⚠	17	POWER SUPPLY Unit	DWR1440
⚠	18	AC Inlet Assy	See Contrast table (2)
	19	Short-pin Plug	AKM7008
	20	34P FFC	DDD1375
	21	17P FFC	DDD1376
	22	24P FFC	DDD1378
	23	34P FFC	DDD1379
	24	30P FFC	DDD1380
	25	13P FFC	DDD1381
	26	17P FFC	DDD1384
	27	5P FFC	DDD1388
	28	Connector Assy	DKP3791
	29	Connector Assy	DKP3792
	30	Connector Assy	DKP3794
	31	Connector Assy	DKP3797
	32	Connector Assy	PF05PP-D20
	33	Connector Assy	PF05PP-S15
	34	Connector Assy	PF07EE-D12
	35	Connector Assy	PF08EE-D17
	36	Connector Assy	PF09PP-D05
	37	Connector Assy	PF15PP-S17
	38	PCB Support	AEC7513
	39	Locking Card Spacer	VEC2234
	40	Rubber Spacer C	DEB1871
	41	Edge Saddle	DEC1807
	42	Radiation Sheet	DEC2694
	43	Gasket S	DEC3028
	44	Cushion	DEC3055
NSP	45	Rear Frame	DNC1821
NSP	46	Rear Panel	See Contrast table (2)
	47	Bracket Earth	DNF1751
	48	Bracket USB	DNF1753
	49	Bracket SD	DNF1754
	50	Bracket MIC	DNF1758
	51	Bracket PSW	DNF1759
	52	Bracket PCB	DNF1760
	53	Shield Case MAIN	DNH2776
	54	Shield Case A	DNH2780
	55	Shield Case AC	DNH2781
	56	Shield Case SWPS	DNH2782
	57	SD Cover	DNK4888
	58	USB Cover	DNK4892
	59	USB Cap	DNK4898
NSP	60	Chassis Assy	DXB1948
NSP	61	Locking Spacer 40	PNW2488
NSP	62	Mech. Sheet	VEX1024
	63	Power Knob	DAC2306
	64	Power Knob Guard	DNK4534
	65	Binder (SKB-90BK)	ZCA-SKB90BK
	66	Cord Clamper	RNH-184
	67	Terminal Screw	DKE1014
	68	Phone Spacer	DEC2914
	69	Horne Washer	DEC2920
	70	Nut M12	NKX2FNI
	71	Flange Nut M7	DBN1011
	72	Screw	AMZ30P040FTC
	73	Screw	BBZ30P080FTC
	74	Screw	IBZ30P080FTB
	75	Screw	PMH30P080FTB
	76	Screw	BBZ30P060FTB
	77	Screw	BPZ30P080FTB
	78	Screw	PMB40P080FTC

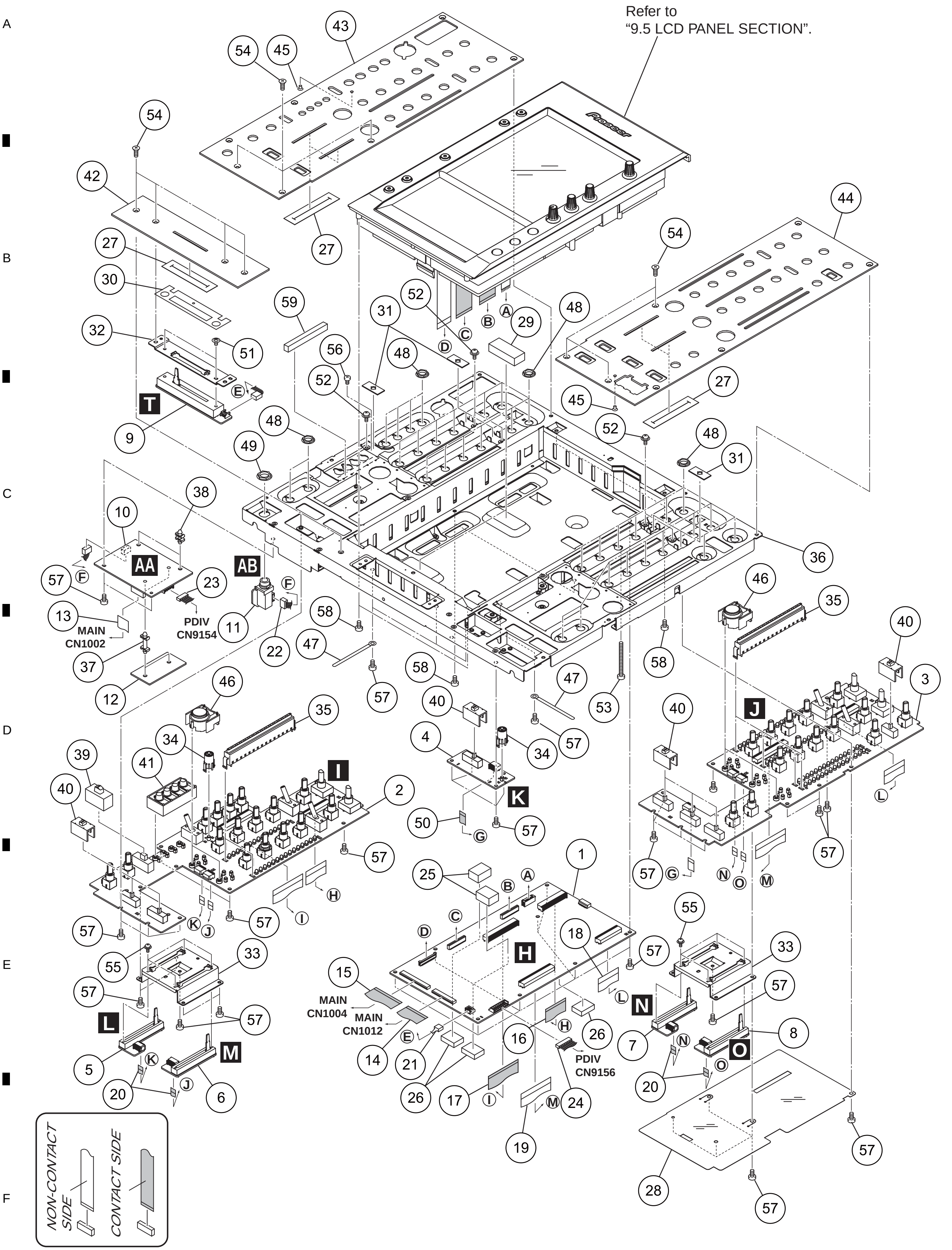
(2) CONTRAST TABLE

SVM-1000/KUCXJ, WYXJ5 and TLXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	SVM-1000 /KUCXJ	SVM-1000 /WYXJ5	SVM-1000 /TLXJ
⚠	18	AC Inlet Assy (3P)	DKP3761	Not used	Not used
⚠	18	AC Inlet Assy (2P)	Not used	DKP3762	DKP3762
NSP	46	Rear Panel	DNC1836	DNC1820	DNC1881

A B C D E F

9.4 OPERATION PANEL SECTION


A
B
C
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F
Refer to
“9.5 LCD PANEL SECTION”.
43
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E
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A
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31
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38
10
AA
AB
57
F
F
23
PDIV
CN9154
13
MAIN
CN1002
11
22
37
12
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K
50
G
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MAIN
CN1004
MAIN
CN1012
E
14
21
26
16
H
26
PDIV
CN9156
24
17
I
M
19
N
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O
N
O
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28
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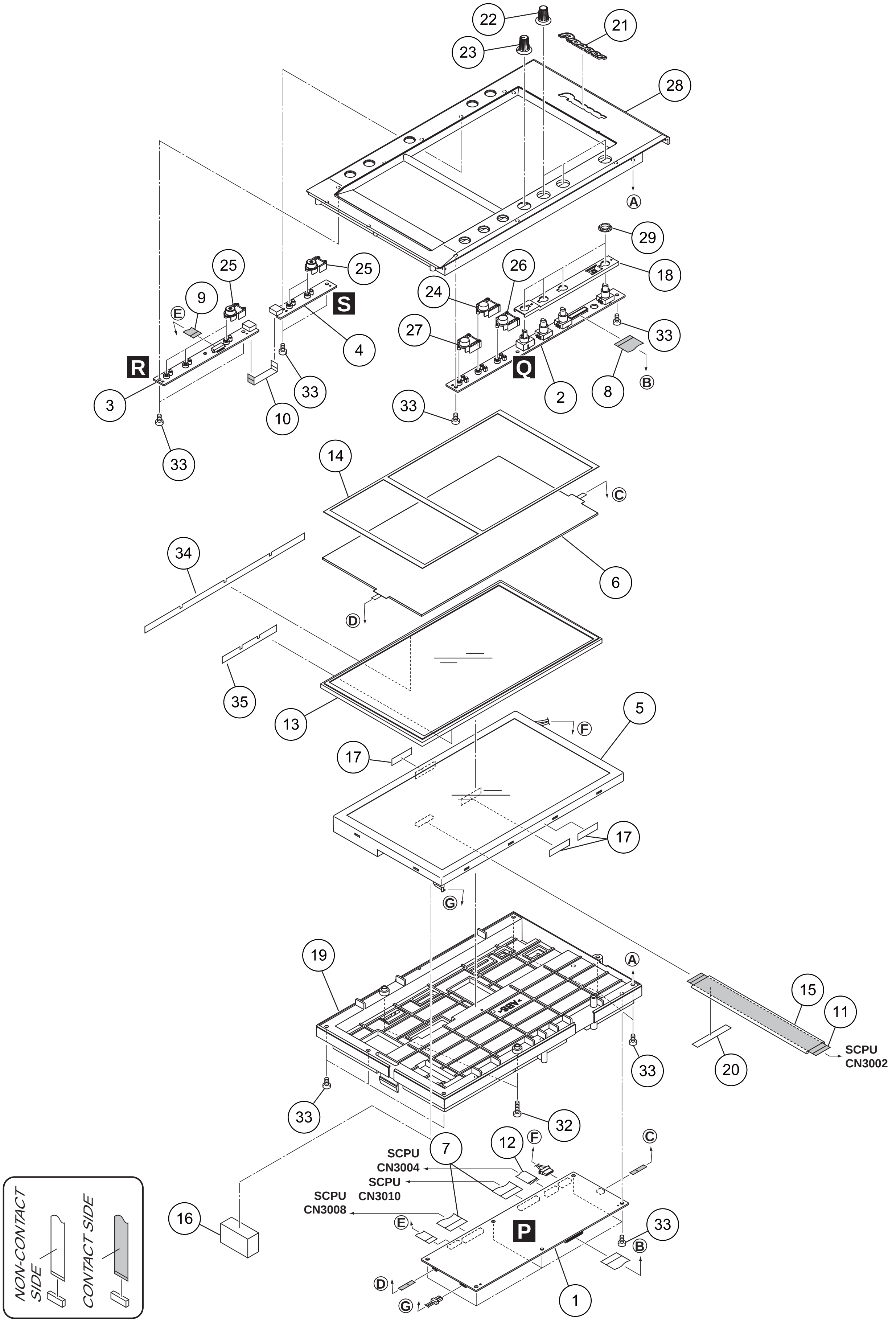
57
NON-CONTACT
SIDE
CONTACT SIDE

OPERATION PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	SCPU Assy	DWX2716
	2	CTL1 Assy	DWX2729
	3	CTL2A Assy	DWX2735
	4	CTL2B Assy	DWX2736
	5	CFD1 Assy	DWX2740
	6	CFD2 Assy	DWX2741
	7	CFD3 Assy	DWX2742
	8	CFD4 Assy	DWX2743
	9	CRFD Assy	DWX2739
	10	HAMP Assy	DWX2726
	11	HJCK Assy	DWX2734
	12	COVER PCB	DWX2793
	13	12P FFC	DDD1377
	14	30P FFC	DDD1382
	15	40P FFC	DDD1383
	16	28P FFC	DDD1389
	17	36P FFC	DDD1390
	18	24P FFC	DDD1391
	19	36P FFC	DDD1392
	20	5P FFC	DDD1394
	21	Connector Assy	PF03PP-D15
	22	Connector Assy	PF04PP-D05
	23	Connector Assy	PF05EE-D37
	24	Connector Assy	PF08EE-D30
	25	Rubber Spacer A	DEB1869
	26	Rubber Spacer B	DEB1870
	27	Fader Packing	DEC2903
	28	Barrier C2	DEC2995
	29	Gasket L	DEC3027
	30	Sheet CRF	DEC3057
	31	SW Packing	DED1177
	32	CRF Stay	DNF1726
	33	Bracket CHF	DNF1752
	34	Lens Holder	DNK4533
	35	Level Meter Assy	DXB1882
	36	Panel Stay Assy	DXB1945
NSP	37	PCB Holder	REC1220
NSP	38	PC Support	VEC1508
	39	Slide SW Cap (A)	DAC2219
	40	Slide SW Cap	DAC2310
	41	SET Knob FS	DAC2389
	42	CRF Panel	DAH2539
	43	Control Panel (L)	DNB1146
	44	Control Panel (R)	DNB1148
	45	Lens	DNK4532

Mark	No.	Description	Part No.
	46	CUE Knob Assy	DXB1950
	47	Cord Clamper	RNH-184
	48	Flange Nut M9	DBN1008
	49	Flange Nut M12	DBN1012
	50	6P FFC	DDD1393
	51	Screw	DBA1262
	52	Screw	AMZ26P040FTC
	53	Screw	BBZ30P450FTC
	54	Screw	CCZ30P060FTB
	55	Screw	PMH20P040FTC
	56	Screw	PMH26P040FTC
	57	Screw	BBZ30P060FTB
	58	Screw	BPZ30P080FTB
	59	Shade Cushion	DEC3076

9.5 LCD PANEL SECTION


22
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4
R
Q
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D
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13
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F
17
17
G
19
A
15
11
SCPU
CN3002
33
20
33
32
7
12
F
C
SCPU
CN3004
SCPU
CN3010
SCPU
CN3008
16
E
P
33
B
D
G
1
NON-CONTACT SIDE
CONTACT SIDE

LCD PANEL SECTION PARTS LIST

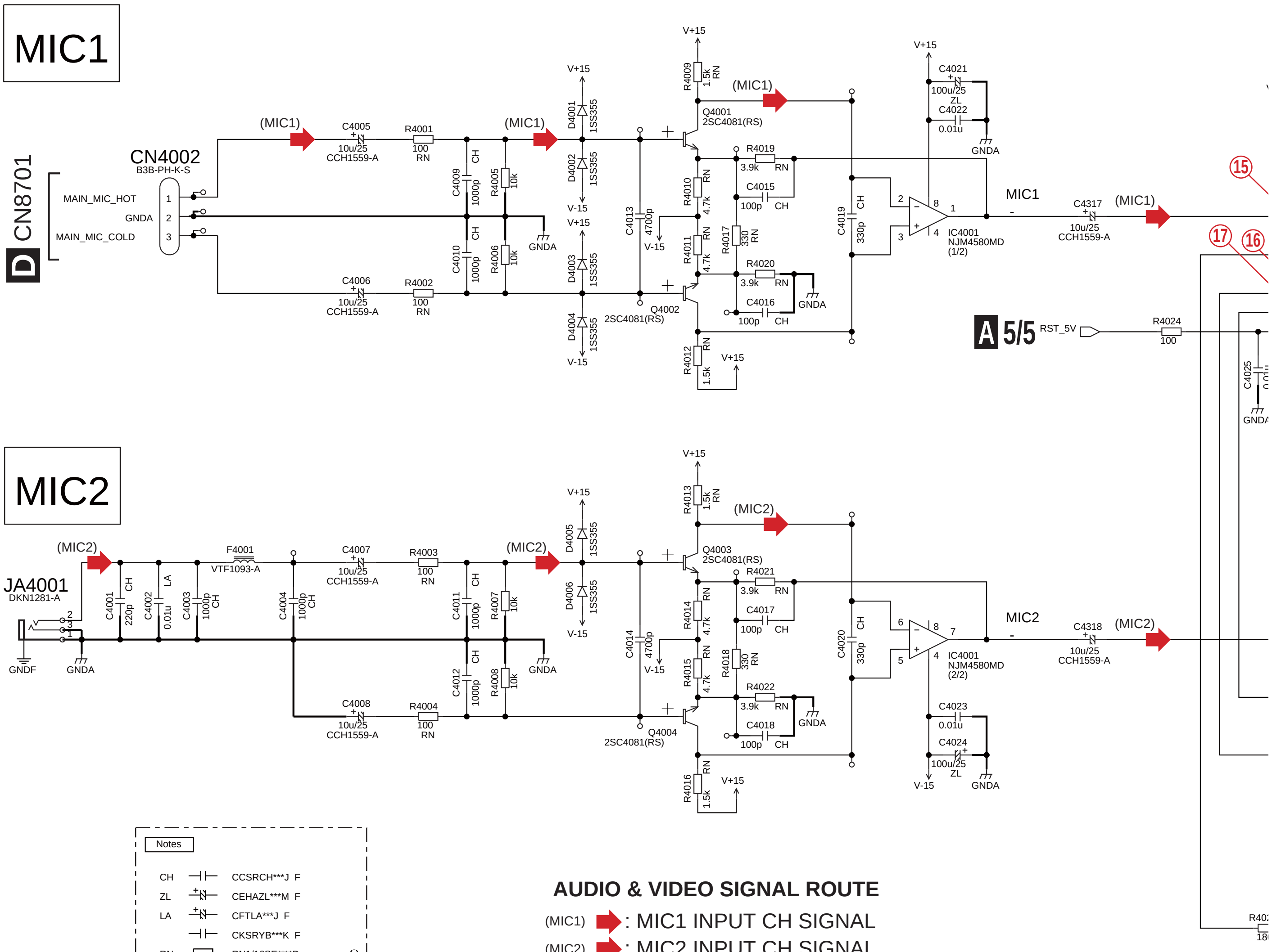
Mark	No.	Description	Part No.
	1	INVT Assy	DWX2717
	2	CTL3R Assy	DWX2730
	3	CTL3LB Assy	DWX2745
	4	CTL3LA Assy	DWX2744
⚠	5	LCD Panel	CWX3405
	6	Touch Panel	DSX1074
	7	24P FFC	DDD1385
	8	22P FFC	DDD1386
	9	11P FFC	DDD1387
	10	6P FFC	DDD1393
	11	40P FFC	DDD1395
	12	Jumper Wire 6P	D20PYY0620E
	13	Protect Plate	DAH2481
	14	Touch Panel Pad	DEC2985
	15	EMC Sheet	DEC3033
	16	Gasket 15x25x40	DEC3034
	17	Aluminum Tape	DEF1018
	18	Bracket SEL	DNF1761
	19	L - Case	DNK4825
NSP	20	Mech. Sheet	VEX1024
	21	Pioneer Name Plate (42)	AAM1115
	22	EFFECT SELECT Knob	DAA1207
	23	EFFECT DEPTH Knob	DAA1208
	24	TAP Knob	DAC2377
	25	MODE Knob	DAC2379
	26	EFFECT CUE Knob	DAC2390
	27	EFFECT Knob	DAC2391
	28	Center Panel	DNK4824
	29	Flange Nut M9	DBN1008
	30	• • • • •	
	31	• • • • •	
	32	Screw	BPZ30P120FTB
	33	Screw	BPZ30P080FTB
	34	Shade Sheet L	DEC3079
	35	Shade Sheet S	DEC3078

10. SCHEMATIC DIAGRAM

10.1 AUD1 ASSY (1/5)

- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ▭ : The power supply is shown with the marked box.

A 1/5 AUD1 ASSY
(DWX2718)



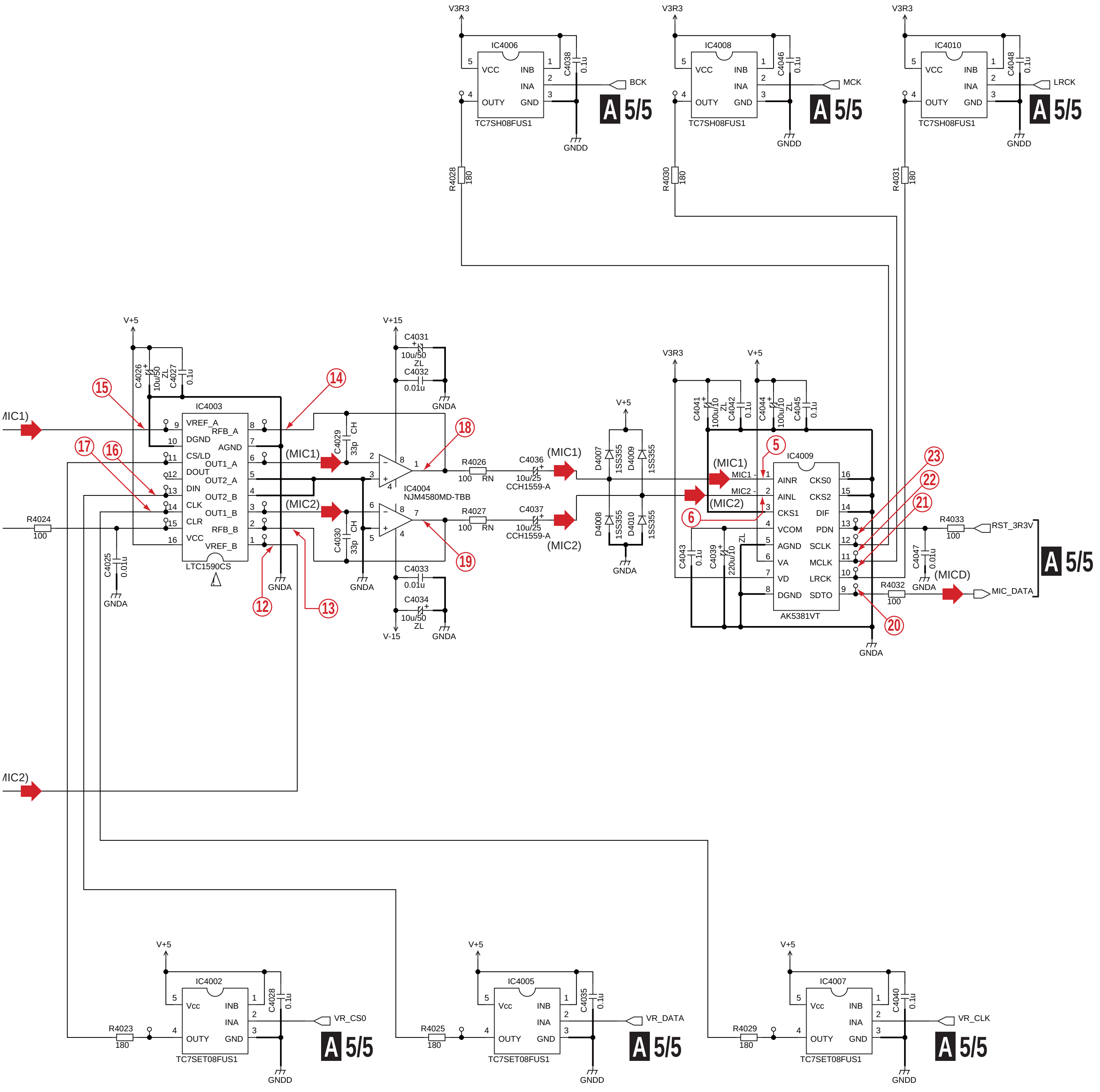
MIC1
D CN8701
CN4002
B3B-PH-K-S
MAIN_MIC_HOT
GNDA
MAIN_MIC_COLD
1
2
3
(MIC1)
C4005
10u/25
CCH1559-A
R4001
100
RN
C4006
10u/25
CCH1559-A
R4002
100
RN
C4009
1000p
CH
R4005
10k
C4010
1000p
CH
R4006
10k
GNDA
D4001
D4002
D4003
D4004
1SS355
V+15
V-15
C4013
4700p
R4009
1.5k
RN
Q4001
2SC4081(RS)
Q4002
2SC4081(RS)
R4010
4.7k
R4011
4.7k
R4012
1.5k
R4017
330
R4019
3.9k
R4020
3.9k
C4015
100p
C4016
100p
C4019
330p
C4021
100u/25
ZL
C4022
0.01u
IC4001
NJM4580MD
(1/2)
MIC1
C4317
10u/25
CCH1559-A
15
16
17
A 5/5
RST_5V
R4024
100
C4025
MIC2
(MIC2)
JA4001
DKN1281-A
GNDF
GNDA
C4001
220p
C4002
0.01u
LA
C4003
1000p
F4001
VTF1093-A
C4004
1000p
C4007
10u/25
CCH1559-A
R4003
100
C4008
10u/25
CCH1559-A
R4004
100
C4011
1000p
R4007
10k
C4012
1000p
R4008
10k
D4005
D4006
C4014
4700p
R4013
1.5k
Q4003
2SC4081(RS)
Q4004
2SC4081(RS)
R4014
4.7k
R4015
4.7k
R4016
1.5k
R4018
330
R4021
3.9k
R4022
3.9k
C4017
100p
C4018
100p
C4020
330p
IC4001
NJM4580MD
(2/2)
C4023
0.01u
C4024
100u/25
ZL
MIC2
C4318
10u/25
CCH1559-A
R402
180

Notes

CH	⊣⊢	CCSRCH***J F	
ZL	⊣⊢	CEHAZL***M F	
LA	⊣⊢	CFTLA***J F	
	⊣⊢	CKSRYB***K F	
RN	▭	RN1/16SE****D	Ω
	▭	RS1/16S***J	Ω

AUDIO & VIDEO SIGNAL ROUTE

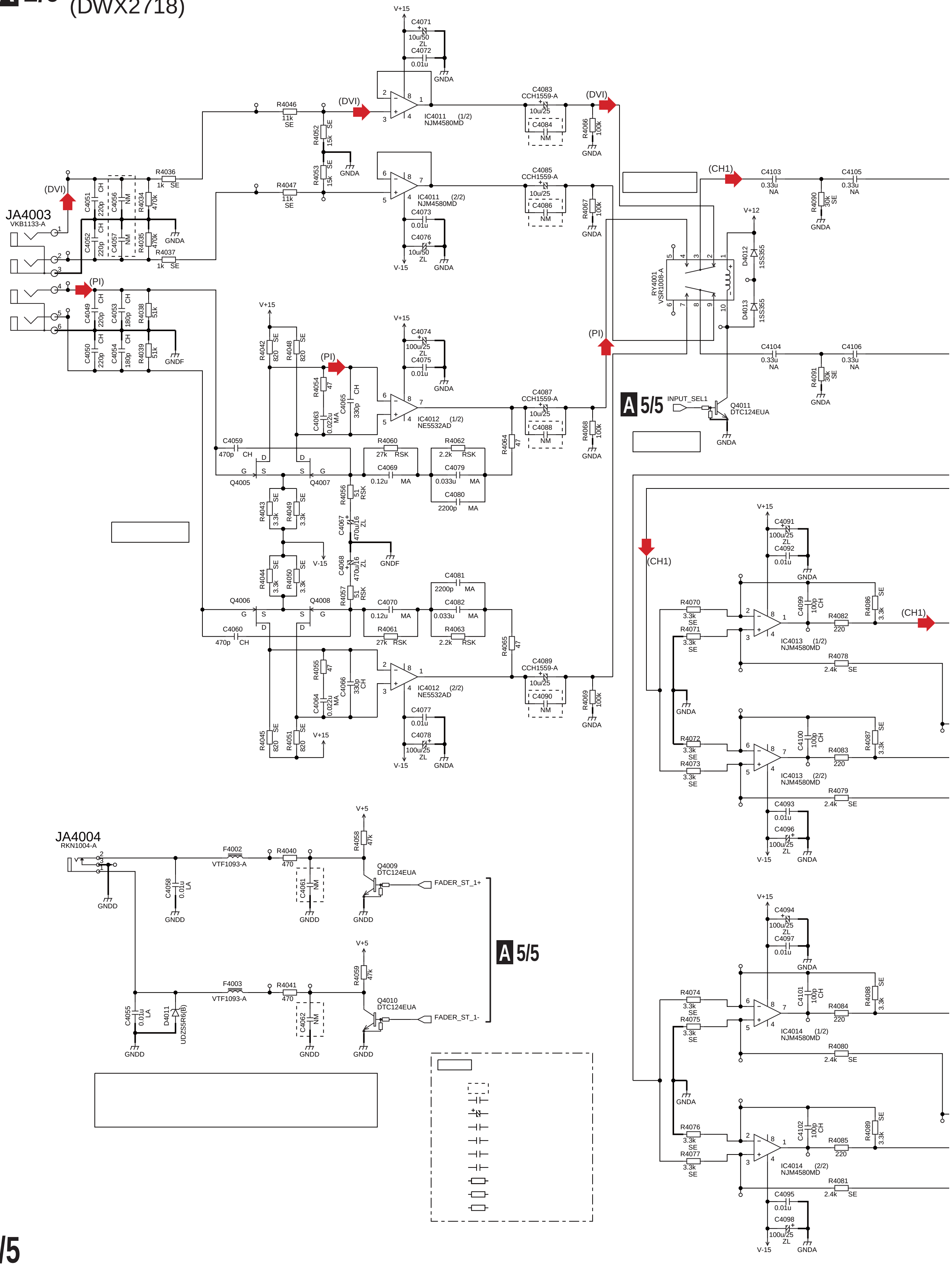
(MIC1) ➡ : MIC1 INPUT CH SIGNAL
(MIC2) ➡ : MIC2 INPUT CH SIGNAL
(MICD) ➡ : MIC DIGITAL CH SIGNAL


V3R3
IC4006
VCC
INB
INA
OUTY
GND
TC7SH08FUS1
C4038
0.1u
BCK
GNDD
A 5/5
R4028
180
IC4008
TC7SH08FUS1
C4046
MCK
R4030
IC4010
TC7SH08FUS1
C4048
LRCK
R4031
V+5
C4026
10u/50
ZL
C4027
0.1u
IC4003
VREF_A
DGND
CS/LD
DOUT
DIN
CLK
CLR
VCC
RFB_A
AGND
OUT1_A
OUT2_A
OUT2_B
OUT1_B
RFB_B
VREF_B
LTC1590CS
(MIC1)
(MIC2)
R4024
100
C4025
0.01u
GNDA
V+15
C4031
10u/50
ZL
C4032
0.01u
C4029
CH
33p
C4030
IC4004
NJM4580MD-TBB
C4033
0.01u
C4034
10u/50
V-15
R4026
100
RN
R4027
C4036
10u/25
CCH1559-A
C4037
D4007
1SS355
D4009
D4008
D4010
V+5
V3R3
C4041
100u/10
ZL
C4042
0.1u
C4044
100u/10
C4045
IC4009
MIC1 -
MIC2 -
AINR
AINL
CKS1
VCOM
AGND
VA
VD
DGND
CKS0
CKS2
DIF
PDN
SCLK
MCLK
LRCK
SDTO
AK5381VT
C4043
0.1u
C4039
220u/10
R4033
100
RST_3R3V
C4047
0.01u
(MICD)
R4032
100
MIC_DATA
GNDA
⑤
⑥
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓
IC4002
Vcc
TC7SET08FUS1
C4028
0.1u
VR_CS0
R4023
180
GNDD
IC4005
C4035
VR_DATA
R4025
IC4007
C4040
VR_CLK
R4029

A 1/5

10.2 AUD1 ASSY (2/5)

A 2/5 AUD1 ASSY
(DWX2718)

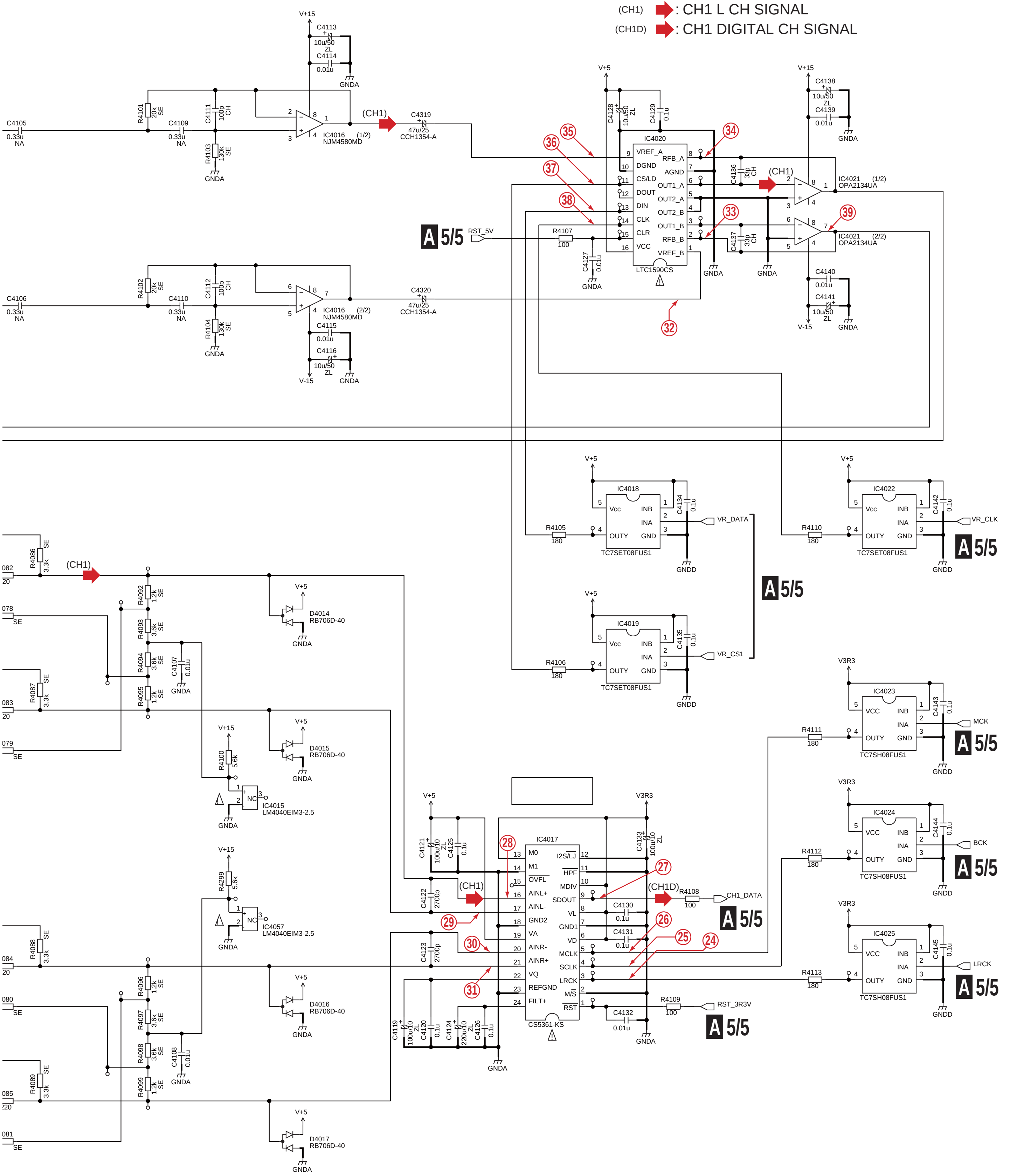


JA4003
VKB1133-A
(DVI)
(PI)
(CH1)
V+15
V-15
V+12
V+5
GNDA
GNDF
GNDD
C4071 10u/50 ZL
C4072 0.01u
R4046 11k SE
R4047 11k SE
R4052 15k SE
R4053 15k SE
IC4011 (1/2) NJM4580MD
IC4011 (2/2) NJM4580MD
C4073 0.01u
C4076 10u/50 ZL
C4083 CCH1559-A 10u/25
C4084 NM
C4085 CCH1559-A 10u/25
C4086 NM
R4066 100k
R4067 100k
R4036 1k SE
R4037 1k SE
C4051 220p CH
C4052 220p CH
C4056 NM
C4057 NM
R4034 470k
R4035 470k
C4049 220p CH
C4050 220p CH
C4053 180p CH
C4054 180p CH
R4038 51k
R4039 51k
R4042 820 SE
R4048 820 SE
R4054 47
C4065 330p CH
C4063 0.022u MA
C4074 100u/25 ZL
C4075 0.01u
IC4012 (1/2) NE5532AD
IC4012 (2/2) NE5532AD
C4087 CCH1559-A 10u/25
C4088 NM
R4068 100k
R4064 47
R4065 47
C4059 470p CH
C4060 470p CH
Q4005
Q4006
Q4007
Q4008
R4060 27k RSK
R4061 27k RSK
R4062 2.2k RSK
R4063 2.2k RSK
C4069 0.12u MA
C4070 0.12u MA
C4079 0.033u MA
C4082 0.033u MA
C4080 2200p MA
C4081 2200p MA
R4056 51 RSK
R4057 51 RSK
C4067 470u/16 ZL
C4068 470u/16 ZL
R4043 3.3k SE
R4049 3.3k SE
R4044 3.3k SE
R4050 3.3k SE
R4055 47
C4066 330p CH
C4064 0.022u MA
C4077 0.01u
C4078 100u/25 ZL
C4089 CCH1559-A 10u/25
C4090 NM
R4069 100k
R4045 820 SE
R4051 820 SE
C4103 0.33u NA
C4105 0.33u NA
R4090 30k SE
C4104 0.33u NA
C4106 0.33u NA
R4091 30k SE
RY4001 VSR1008-A
D4012 1SS355
D4013 1SS355
A 5/5
INPUT_SEL1
Q4011 DTC124EUA
C4091 100u/25 ZL
C4092 0.01u
R4070 3.3k SE
R4071 3.3k SE
C4099 100p CH
R4082 220
R4086 3.3k SE
IC4013 (1/2) NJM4580MD
R4078 2.4k SE
R4072 3.3k SE
R4073 3.3k SE
C4100 100p CH
R4083 220
R4087 3.3k SE
IC4013 (2/2) NJM4580MD
R4079 2.4k SE
C4093 0.01u
C4096 100u/25 ZL
C4094 100u/25 ZL
C4097 0.01u
R4074 3.3k SE
R4075 3.3k SE
C4101 100p CH
R4084 220
R4088 3.3k SE
IC4014 (1/2) NJM4580MD
R4080 2.4k SE
R4076 3.3k SE
R4077 3.3k SE
C4102 100p CH
R4085 220
R4089 3.3k SE
IC4014 (2/2) NJM4580MD
R4081 2.4k SE
C4095 0.01u
C4098 100u/25 ZL
JA4004
RKN1004-A
F4002 VTF1093-A
F4003 VTF1093-A
R4040 470
R4041 470
C4058 0.01u LA
C4055 0.01u LA
C4061 NM
C4062 NM
D4011 UDZS5R6(B)
R4058 47k
R4059 47k
Q4009 DTC124EUA
Q4010 DTC124EUA
FADER_ST_1+
FADER_ST_1-
A 5/5

A 2/5

AUDIO & VIDEO SIGNAL ROUTE

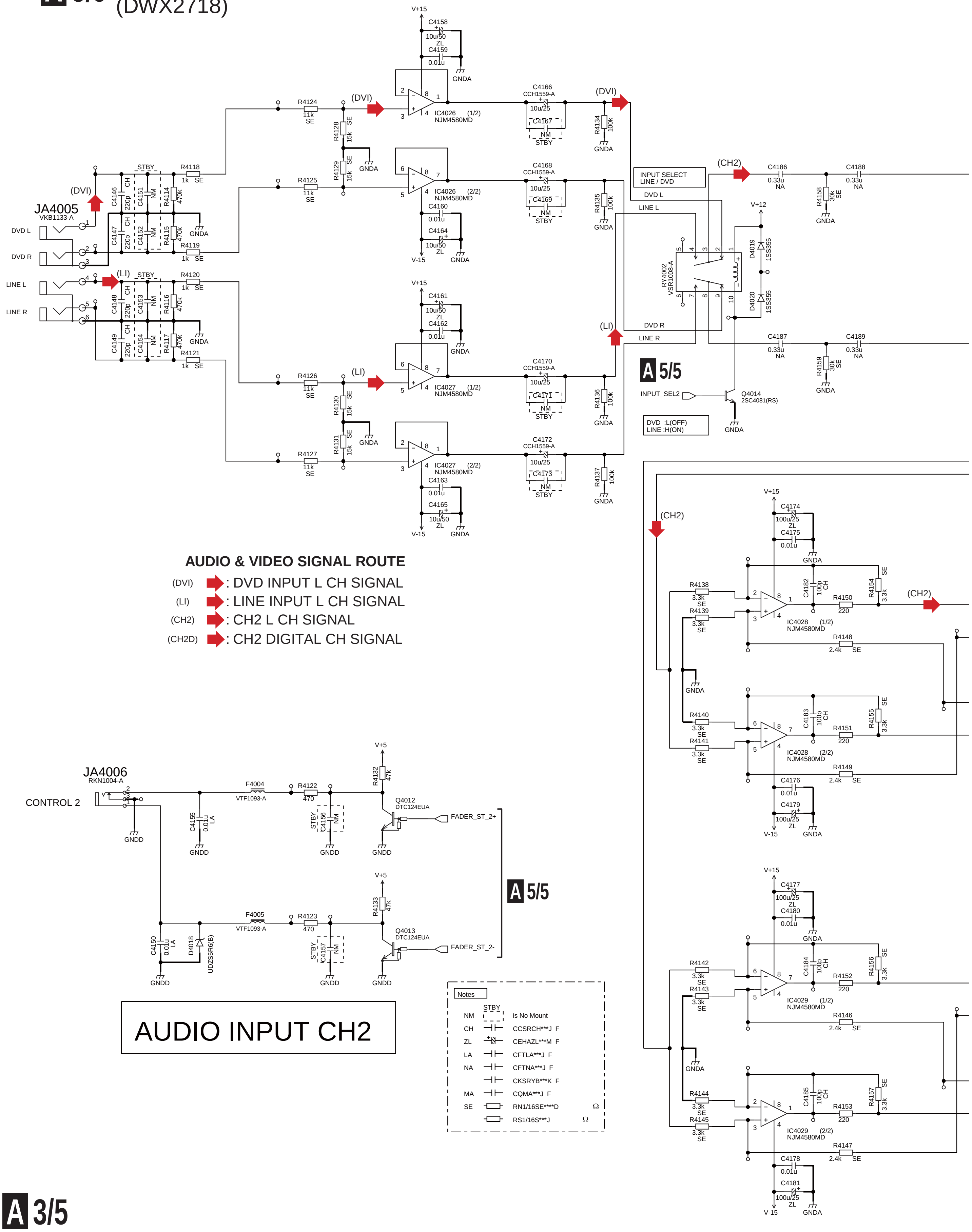
(DVI)	: DVD INPUT L CH SIGNAL
(PI)	: PHONO INPUT L CH SIGNAL
(CH1)	: CH1 L CH SIGNAL
(CH1D)	: CH1 DIGITAL CH SIGNAL



V+15
C4113 10u/50 ZL
C4114 0.01u
GNDA
C4105 0.33u NA
R4101 20k SE
C4109 0.33u NA
C4111 100p CH
R4103 130k SE
IC4016 (1/2) NJM4580MD
(CH1)
C4319 47u/25 CCH1354-A
C4106 0.33u NA
R4102 20k SE
C4110 0.33u NA
C4112 100p CH
R4104 130k SE
IC4016 (2/2) NJM4580MD
C4115 0.01u
C4116 10u/50 ZL
V-15
C4320 47u/25 CCH1354-A
V+5
C4128 10u/50 ZL
C4129 0.1u
IC4020
VREF_A
DGND
CS/LD
DOUT
DIN
CLK
CLR
VCC
RFB_A
AGND
OUT1_A
OUT2_A
OUT2_B
OUT1_B
RFB_B
VREF_B
LTC1590CS
C4127 0.01u
A 5/5
RST_5V
R4107 100
C4136 33p CH
C4137 33p CH
IC4021 (1/2) OPA2134UA
IC4021 (2/2) OPA2134UA
C4138 10u/50 ZL
C4139 0.01u
C4140 0.01u
C4141 10u/50 ZL
35
36
37
38
34
33
39
32
IC4018
TC7SET08FUS1
Vcc
INB
INA
OUTY
GND
C4134 0.1u
VR_DATA
R4105 180
GNDD
IC4019
C4135 0.1u
VR_CS1
R4106 180
IC4022
C4142 0.1u
VR_CLK
R4110 180
A 5/5
IC4023
TC7SH08FUS1
VCC
C4143 0.1u
MCK
R4111 180
V3R3
IC4024
C4144 0.1u
BCK
R4112 180
IC4025
C4145 0.1u
LRCK
R4113 180
R4086 3.3k SE
R4087 3.3k SE
R4088 3.3k SE
R4089 3.3k SE
082
078
083
079
084
080
085
081
R4092 1.2k SE
R4093 3.6k SE
R4094 3.6k SE
R4095 1.2k SE
C4107 0.01u
R4096 1.2k SE
R4097 3.6k SE
R4098 3.6k SE
R4099 1.2k SE
C4108 0.01u
D4014 RB706D-40
D4015 RB706D-40
D4016 RB706D-40
D4017 RB706D-40
R4100 5.6k
IC4015 LM4040EIM3-2.5
R4299 5.6k
IC4057 LM4040EIM3-2.5
NC
IC4017
M0
M1
OVFL
AINL+
AINL-
GND2
VA
AINR-
AINR+
VQ
REFGND
FILT+
I2S/LJ
HPF
MDIV
SDOUT
VL
GND1
VD
MCLK
SCLK
LRCK
M/S
RST
CS5361-KS
C4121 100u/10 ZL
C4125 0.1u
C4122 2700p
C4123 2700p
C4119 100u/10 ZL
C4120 0.1u
C4124 220u/10 ZL
C4126 0.1u
C4133 100u/10 ZL
C4130 0.1u
C4131 0.1u
C4132 0.01u
(CH1D)
R4108 100
CH1_DATA
R4109 100
RST_3R3V
28
29
30
31
27
26
25
24

10.3 AUD1 ASSY (3/5)

A 3/5 AUD1 ASSY
(DWX2718)


JA4005
VKB1133-A
DVD L
DVD R
LINE L
LINE R
(DVI)
(LI)
STBY
C4146 220p CH
C4151 NM
R4114 470k
R4118 1k SE
C4147 220p CH
C4152 NM
R4115 470k
R4119 1k SE
C4148 220p CH
C4153 NM
R4116 470k
R4120 1k SE
C4149 220p CH
C4154 NM
R4117 470k
R4121 1k SE
GNDA
R4124 11k SE
R4125 11k SE
R4126 11k SE
R4127 11k SE
R4128 15k SE
R4129 15k SE
R4130 15k SE
R4131 15k SE
V+15
V-15
C4158 10u/50 ZL
C4159 0.01u
C4160 0.01u
C4164 10u/50 ZL
C4161 10u/50 ZL
C4162 0.01u
C4163 0.01u
C4165 10u/50 ZL
IC4026 (1/2) NJM4580MD
IC4026 (2/2) NJM4580MD
IC4027 (1/2) NJM4580MD
IC4027 (2/2) NJM4580MD
C4166 CCH1559-A 10u/25
C4167 NM STBY
C4168 CCH1559-A 10u/25
C4169 NM STBY
C4170 CCH1559-A 10u/25
C4171 NM STBY
C4172 CCH1559-A 10u/25
C4173 NM STBY
R4134 100k
R4135 100k
R4136 100k
R4137 100k
INPUT SELECT
LINE / DVD
DVD L
LINE L
DVD R
LINE R
RY4002
VSR1008-A
V+12
D4019 1SS355
D4020 1SS355
(CH2)
C4186 0.33u NA
C4188 0.33u NA
R4158 30k SE
C4187 0.33u NA
C4189 0.33u NA
R4159 30k SE
A 5/5
INPUT_SEL2
Q4014
2SC4081(RS)
DVD :L(OFF)
LINE :H(ON)
C4174 100u/25 ZL
C4175 0.01u
R4138 3.3k SE
R4139 3.3k SE
C4182 100p CH
R4150 220
R4154 3.3k SE
IC4028 (1/2) NJM4580MD
R4148 2.4k SE
R4140 3.3k SE
R4141 3.3k SE
C4183 100p CH
R4151 220
R4155 3.3k SE
IC4028 (2/2) NJM4580MD
R4149 2.4k SE
C4176 0.01u
C4179 100u/25 ZL
C4177 100u/25 ZL
C4180 0.01u
R4142 3.3k SE
R4143 3.3k SE
C4184 100p CH
R4152 220
R4156 3.3k SE
IC4029 (1/2) NJM4580MD
R4146 2.4k SE
R4144 3.3k SE
R4145 3.3k SE
C4185 100p CH
R4153 220
R4157 3.3k SE
IC4029 (2/2) NJM4580MD
R4147 2.4k SE
C4178 0.01u
C4181 100u/25 ZL
JA4006
RKN1004-A
CONTROL 2
GNDD
C4155 0.01u LA
F4004 VTF1093-A
R4122 470
STBY C4156 NM
V+5
R4132 47k
Q4012 DTC124EUA
FADER_ST_2+
C4150 0.01u LA
D4018 UDZS5R6(B)
F4005 VTF1093-A
R4123 470
STBY C4157 NM
R4133 47k
Q4013 DTC124EUA
FADER_ST_2-
A 5/5
A 3/5

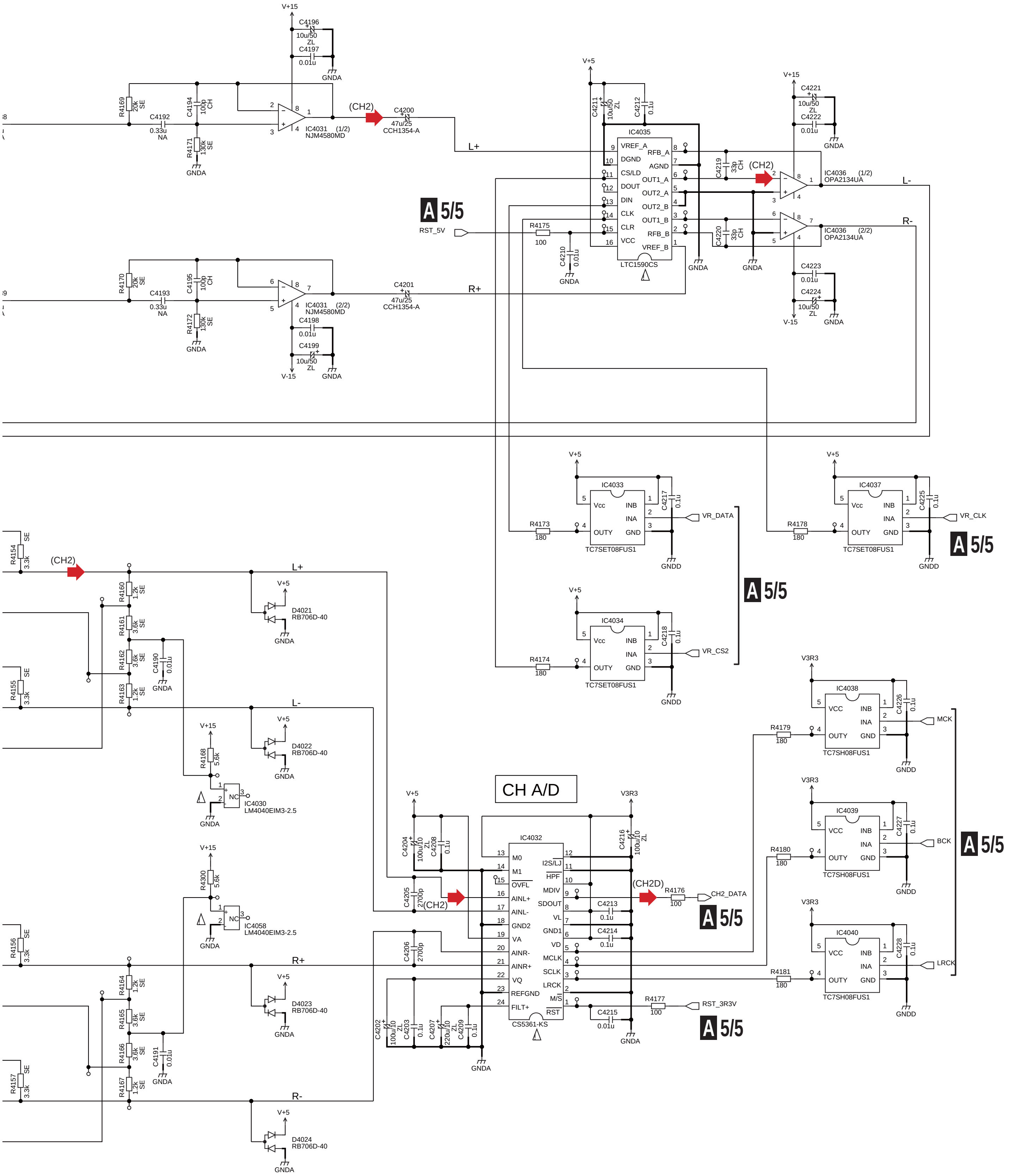
AUDIO & VIDEO SIGNAL ROUTE

(DVI) ➡ : DVD INPUT L CH SIGNAL
(LI) ➡ : LINE INPUT L CH SIGNAL
(CH2) ➡ : CH2 L CH SIGNAL
(CH2D) ➡ : CH2 DIGITAL CH SIGNAL

AUDIO INPUT CH2

Notes

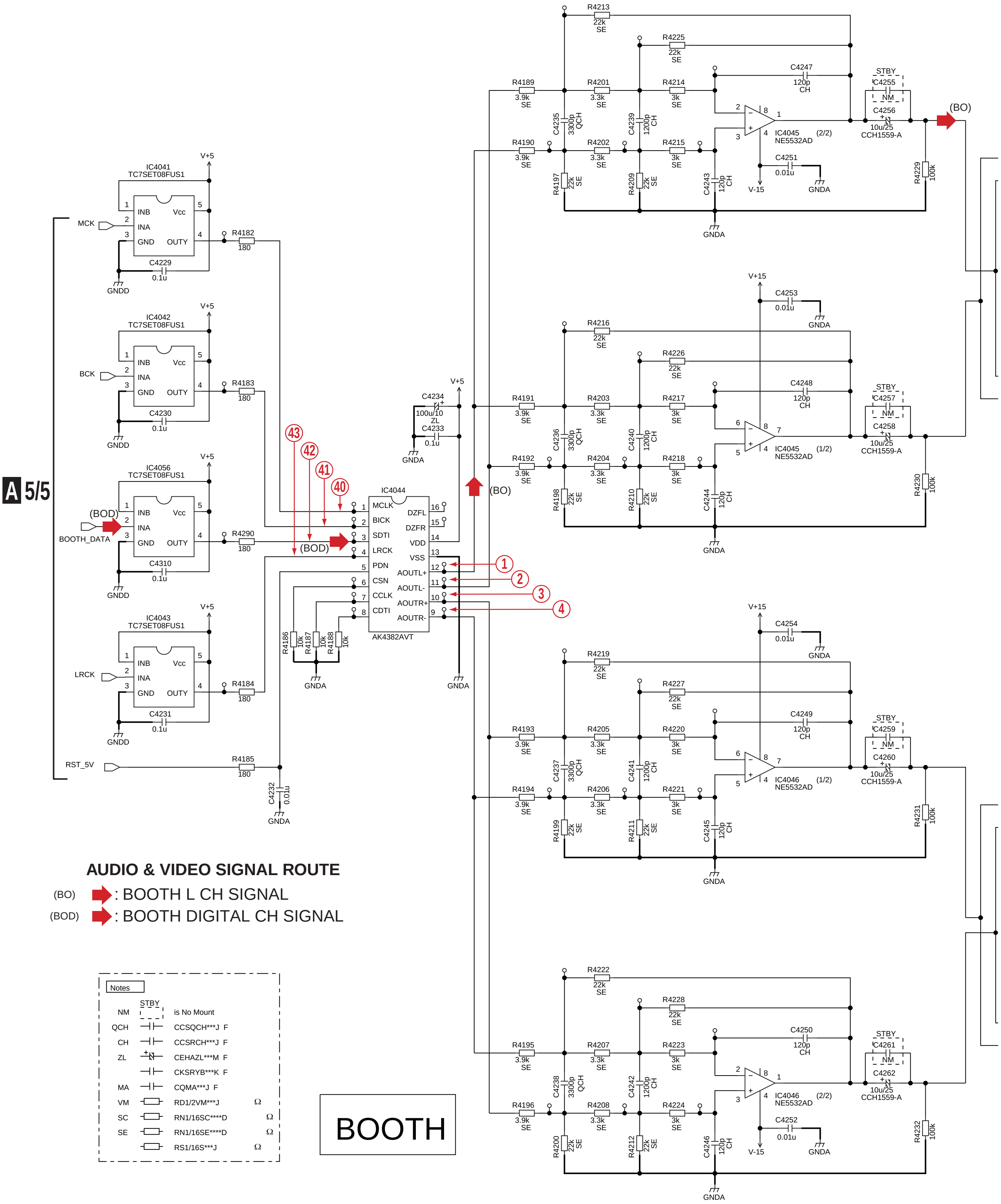
NM	STBY	is No Mount
CH		CCSRCH***J F
ZL		CEHAZL***M F
LA		CFTLA***J F
NA		CFTNA***J F
		CKSRYB***K F
MA		CQMA***J F
SE		RN1/16SE****D Ω
		RS1/16S***J Ω



V+15
C4196
10u/50
ZL
C4197
0.01u
GNDA
R4169
20k
SE
C4192
0.33u
NA
C4194
100p
CH
R4171
130k
SE
IC4031 (1/2)
NJM4580MD
(CH2)
C4200
47u/25
CCH1354-A
L+
V+5
C4211
10u/50
ZL
C4212
0.1u
IC4035
VREF_A
RFB_A
DGND
AGND
CS/LD
OUT1_A
DOUT
OUT2_A
DIN
OUT2_B
CLK
OUT1_B
CLR
RFB_B
VCC
VREF_B
LTC1590CS
C4210
0.01u
GNDA
C4219
33p
CH
C4220
33p
CH
C4221
10u/50
ZL
C4222
0.01u
IC4036 (1/2)
OPA2134UA
IC4036 (2/2)
OPA2134UA
L-
R-
C4223
0.01u
C4224
10u/50
ZL
V-15
A 5/5
RST_5V
R4175
100
R4170
20k
SE
C4193
0.33u
NA
C4195
100p
CH
R4172
130k
SE
IC4031 (2/2)
NJM4580MD
C4198
0.01u
C4199
10u/50
ZL
C4201
47u/25
CCH1354-A
R+
V+5
IC4033
Vcc
INB
INA
OUTY
GND
TC7SET08FUS1
C4217
0.1u
VR_DATA
R4173
180
GNDD
IC4037
C4225
0.1u
VR_CLK
R4178
180
IC4034
C4218
0.1u
VR_CS2
R4174
180
V3R3
IC4038
VCC
TC7SH08FUS1
C4226
0.1u
MCK
R4179
180
IC4039
C4227
0.1u
BCK
R4180
180
IC4040
C4228
0.1u
LRCK
R4181
180
R4154
3.3k
SE
(CH2)
R4160
1.2k
SE
R4161
3.6k
SE
R4162
3.6k
SE
C4190
0.01u
R4163
1.2k
SE
R4155
3.3k
SE
D4021
RB706D-40
D4022
RB706D-40
V+15
R4168
5.6k
NC
IC4030
LM4040EIM3-2.5
R4300
5.6k
IC4058
LM4040EIM3-2.5
CH A/D
IC4032
M0
M1
OVFL
AINL+
AINL-
GND2
VA
AINR-
AINR+
VQ
REFGND
FILT+
I2S/LJ
HPF
MDIV
SDOUT
VL
GND1
VD
MCLK
SCLK
LRCK
M/S
RST
CS5361-KS
C4204
100u/10
ZL
C4208
0.1u
C4216
100u/10
ZL
C4205
2700p
(CH2)
C4206
2700p
(CH2D)
R4176
100
CH2_DATA
C4213
0.1u
C4214
0.1u
C4215
0.01u
R4177
100
RST_3R3V
C4202
100u/10
ZL
C4203
0.1u
C4207
220u/10
ZL
C4209
0.1u
R4156
3.3k
SE
R4164
1.2k
SE
R4165
3.6k
SE
R4166
3.6k
SE
C4191
0.01u
R4167
1.2k
SE
R4157
3.3k
SE
D4023
RB706D-40
D4024
RB706D-40

10.4 AUD1 ASSY (4/5)

A 4/5 AUD1 ASSY
(DWX2718)


A
B
C
D
E
F
A 5/5
IC4041
TC7SET08FUS1
IC4042
TC7SET08FUS1
IC4056
TC7SET08FUS1
IC4043
TC7SET08FUS1
INB
INA
GND
Vcc
OUTY
V+5
MCK
BCK
(BOD)
BOOTH_DATA
LRCK
RST_5V
GNDD
C4229 0.1u
C4230 0.1u
C4310 0.1u
C4231 0.1u
R4182 180
R4183 180
R4290 180
R4184 180
R4185 180
C4232 0.01u
GNDA
43
42
41
40
(BOD)
IC4044
AK4382AVT
MCLK
BICK
SDTI
LRCK
PDN
CSN
CCLK
CDTI
DZFL
DZFR
VDD
VSS
AOUTL+
AOUTL-
AOUTR+
AOUTR-
R4186 10k
R4187 10k
R4188 10k
C4234 100u/10 ZL
C4233 0.1u
1
2
3
4
(BO)
R4213 22k SE
R4225 22k SE
R4189 3.9k SE
R4201 3.3k SE
R4214 3k SE
C4247 120p CH
STBY
C4255 NM
C4256 10u/25 CCH1559-A
IC4045 NE5532AD (2/2)
C4235 3300p QCH
C4239 1200p CH
R4190 3.9k SE
R4202 3.3k SE
R4215 3k SE
R4197 22k SE
R4209 22k SE
C4243 120p CH
C4251 0.01u
V-15
R4229 100k
V+15
C4253 0.01u
R4216 22k SE
R4226 22k SE
C4248 120p CH
C4257 NM
C4258 10u/25 CCH1559-A
R4191 3.9k SE
R4203 3.3k SE
R4217 3k SE
IC4045 NE5532AD (1/2)
C4236 3300p QCH
C4240 1200p CH
R4192 3.9k SE
R4204 3.3k SE
R4218 3k SE
R4198 22k SE
R4210 22k SE
C4244 120p CH
R4230 100k
C4254 0.01u
R4219 22k SE
R4227 22k SE
C4249 120p CH
C4259 NM
C4260 10u/25 CCH1559-A
R4193 3.9k SE
R4205 3.3k SE
R4220 3k SE
IC4046 NE5532AD (1/2)
C4237 3300p QCH
C4241 1200p CH
R4194 3.9k SE
R4206 3.3k SE
R4221 3k SE
R4199 22k SE
R4211 22k SE
C4245 120p CH
R4231 100k
R4222 22k SE
R4228 22k SE
C4250 120p CH
C4261 NM
C4262 10u/25 CCH1559-A
R4195 3.9k SE
R4207 3.3k SE
R4223 3k SE
IC4046 NE5532AD (2/2)
C4238 3300p QCH
C4242 1200p CH
R4196 3.9k SE
R4208 3.3k SE
R4224 3k SE
R4200 22k SE
R4212 22k SE
C4246 120p CH
C4252 0.01u
R4232 100k
BOOTH

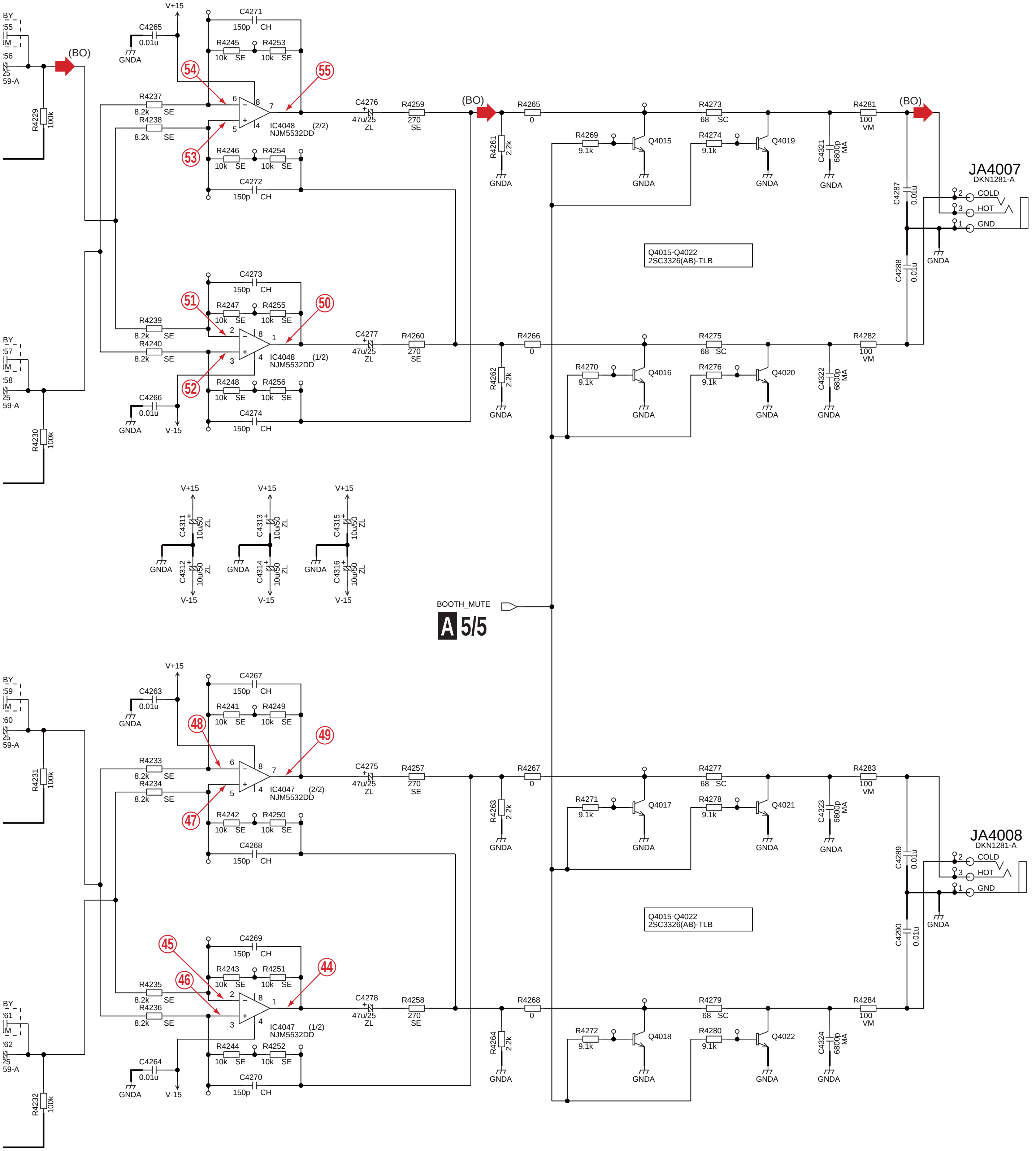
AUDIO & VIDEO SIGNAL ROUTE

(BO) ➡ : BOOTH L CH SIGNAL

(BOD) ➡ : BOOTH DIGITAL CH SIGNAL

Notes

NM	STBY	is No Mount
QCH		CCSQCH***J F
CH		CCSRCH***J F
ZL		CEHAZL***M F
		CKSRYB***K F
MA		CQMA***J F
VM		RD1/2VM***J Ω
SC		RN1/16SC****D Ω
SE		RN1/16SE****D Ω
		RS1/16S***J Ω



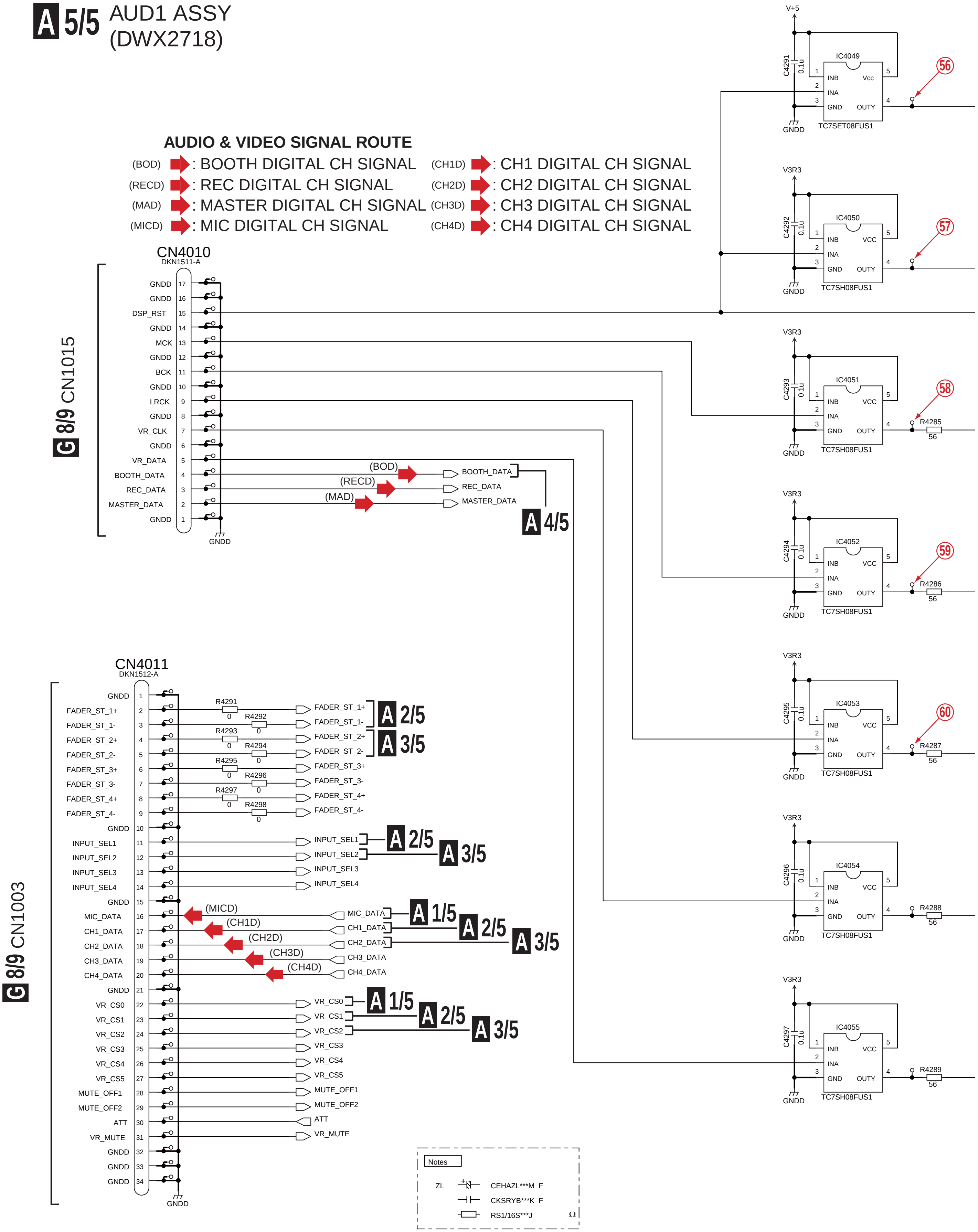
V+15
C4265 0.01u
GNDA
C4271 150p CH
R4245 10k SE
R4253 10k SE
(BO)
54
55
R4237 8.2k SE
R4238 8.2k SE
IC4048 (2/2) NJM5532DD
53
C4276 47u/25 ZL
R4259 270 SE
R4229 100k
R4246 10k SE
R4254 10k SE
C4272 150p CH
R4261 2.2k
R4265 0
R4269 9.1k
Q4015
R4273 68 SC
R4274 9.1k
Q4019
C4321 6800p MA
R4281 100 VM
JA4007 DKN1281-A
2 COLD
3 HOT
1 GND
C4287 0.01u
C4288 0.01u
Q4015-Q4022 2SC3326(AB)-TLB
C4273 150p CH
51
50
R4247 10k SE
R4255 10k SE
R4239 8.2k SE
R4240 8.2k SE
IC4048 (1/2) NJM5532DD
52
C4277 47u/25 ZL
R4260 270 SE
R4262 2.2k
R4266 0
R4270 9.1k
Q4016
R4275 68 SC
R4276 9.1k
Q4020
C4322 6800p MA
R4282 100 VM
R4248 10k SE
R4256 10k SE
C4266 0.01u
V-15
C4274 150p CH
R4230 100k
C4311 10u/50 ZL
C4312 10u/50 ZL
C4313 10u/50 ZL
C4314 10u/50 ZL
C4315 10u/50 ZL
C4316 10u/50 ZL
BOOTH_MUTE
A 5/5
C4263 0.01u
C4267 150p CH
R4241 10k SE
R4249 10k SE
48
49
R4233 8.2k SE
R4234 8.2k SE
IC4047 (2/2) NJM5532DD
47
C4275 47u/25 ZL
R4257 270 SE
R4231 100k
R4242 10k SE
R4250 10k SE
C4268 150p CH
R4263 2.2k
R4267 0
R4271 9.1k
Q4017
R4277 68 SC
R4278 9.1k
Q4021
C4323 6800p MA
R4283 100 VM
JA4008 DKN1281-A
C4289 0.01u
C4290 0.01u
45
46
44
C4269 150p CH
R4243 10k SE
R4251 10k SE
R4235 8.2k SE
R4236 8.2k SE
IC4047 (1/2) NJM5532DD
C4278 47u/25 ZL
R4258 270 SE
R4264 2.2k
R4268 0
R4272 9.1k
Q4018
R4279 68 SC
R4280 9.1k
Q4022
C4324 6800p MA
R4284 100 VM
R4244 10k SE
R4252 10k SE
C4264 0.01u
C4270 150p CH
R4232 100k
BY
59-A

10.5 AUD1 ASSY (5/5)

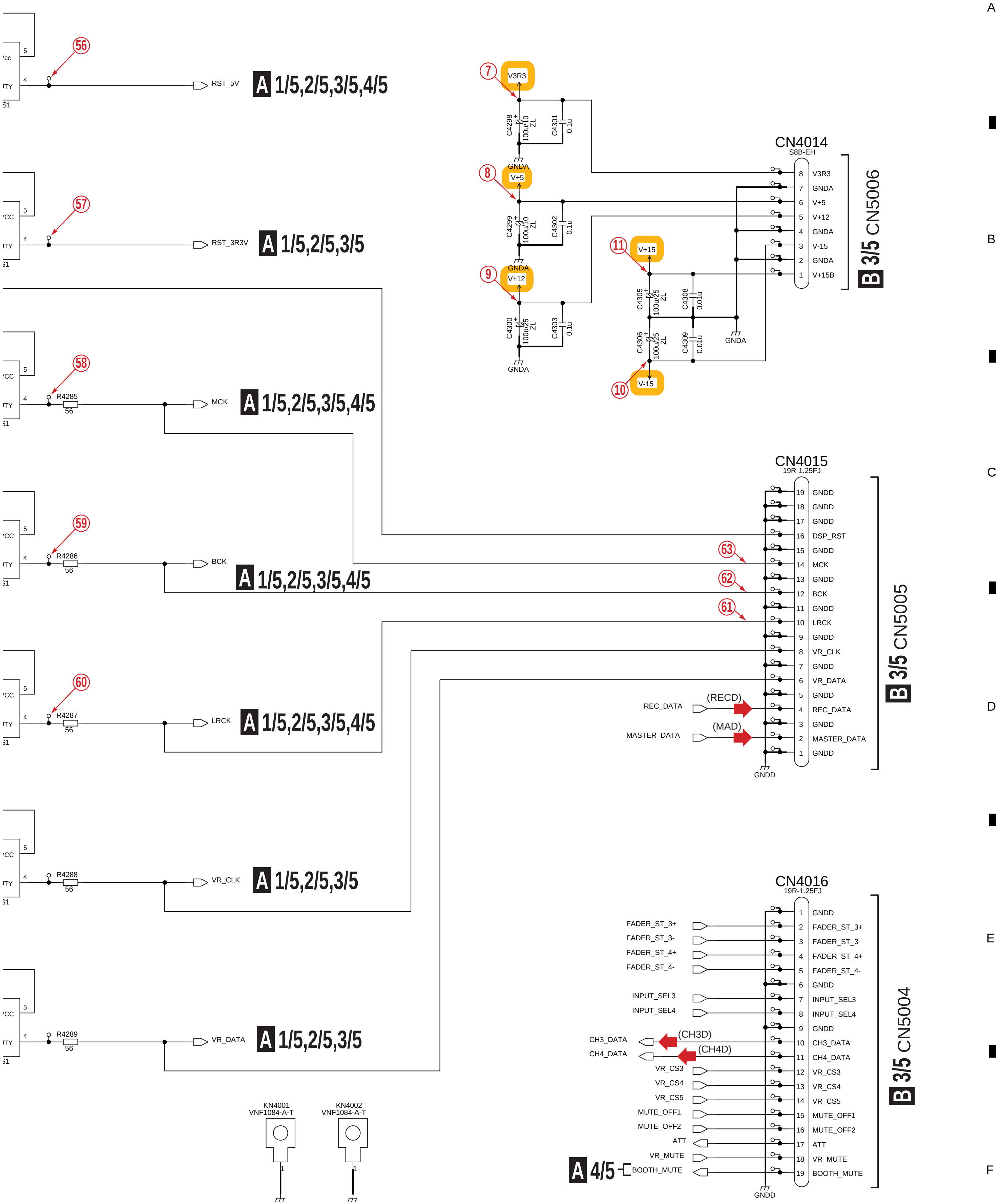
A 5/5 AUD1 ASSY
(DWX2718)

AUDIO & VIDEO SIGNAL ROUTE

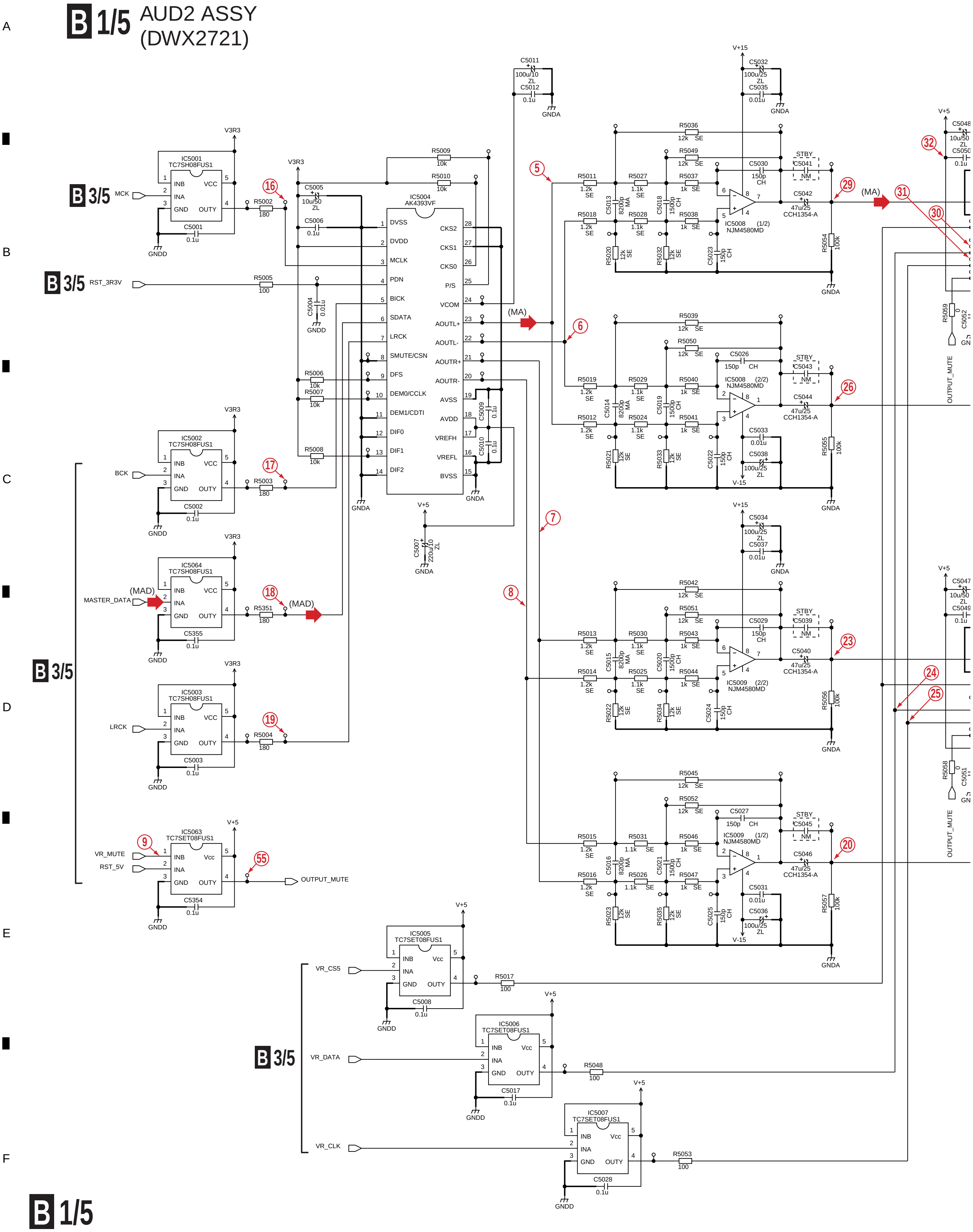
(BOD)	➡: BOOTH DIGITAL CH SIGNAL	(CH1D)	➡: CH1 DIGITAL CH SIGNAL
(RECD)	➡: REC DIGITAL CH SIGNAL	(CH2D)	➡: CH2 DIGITAL CH SIGNAL
(MAD)	➡: MASTER DIGITAL CH SIGNAL	(CH3D)	➡: CH3 DIGITAL CH SIGNAL
(MICD)	➡: MIC DIGITAL CH SIGNAL	(CH4D)	➡: CH4 DIGITAL CH SIGNAL


CN4010
DKN1511-A
G 8/9 CN1015
GNDD 17
GNDD 16
DSP_RST 15
GNDD 14
MCK 13
GNDD 12
BCK 11
GNDD 10
LRCK 9
GNDD 8
VR_CLK 7
GNDD 6
VR_DATA 5
BOOTH_DATA 4
REC_DATA 3
MASTER_DATA 2
GNDD 1
GNDD
(BOD)
(RECD)
(MAD)
BOOTH_DATA
REC_DATA
MASTER_DATA
A 4/5
V+5
C4291 0.1u
IC4049
INB
INA
GND
Vcc
OUTY
TC7SET08FUS1
56
V3R3
C4292 0.1u
IC4050
VCC
TC7SH08FUS1
57
C4293 0.1u
IC4051
R4285 56
58
C4294 0.1u
IC4052
R4286 56
59
C4295 0.1u
IC4053
R4287 56
60
C4296 0.1u
IC4054
R4288 56
C4297 0.1u
IC4055
R4289 56
CN4011
DKN1512-A
G 8/9 CN1003
GNDD 1
FADER_ST_1+ 2
FADER_ST_1- 3
FADER_ST_2+ 4
FADER_ST_2- 5
FADER_ST_3+ 6
FADER_ST_3- 7
FADER_ST_4+ 8
FADER_ST_4- 9
GNDD 10
INPUT_SEL1 11
INPUT_SEL2 12
INPUT_SEL3 13
INPUT_SEL4 14
GNDD 15
MIC_DATA 16
CH1_DATA 17
CH2_DATA 18
CH3_DATA 19
CH4_DATA 20
GNDD 21
VR_CS0 22
VR_CS1 23
VR_CS2 24
VR_CS3 25
VR_CS4 26
VR_CS5 27
MUTE_OFF1 28
MUTE_OFF2 29
ATT 30
VR_MUTE 31
GNDD 32
GNDD 33
GNDD 34
R4291 0
R4292 0
R4293 0
R4294 0
R4295 0
R4296 0
R4297 0
R4298 0
A 2/5
A 3/5
(MICD)
(CH1D)
(CH2D)
(CH3D)
(CH4D)
A 1/5
Notes
ZL CEHAZL***M F
CKSRYB***K F
RS1/16S***J Ω

A 5/5

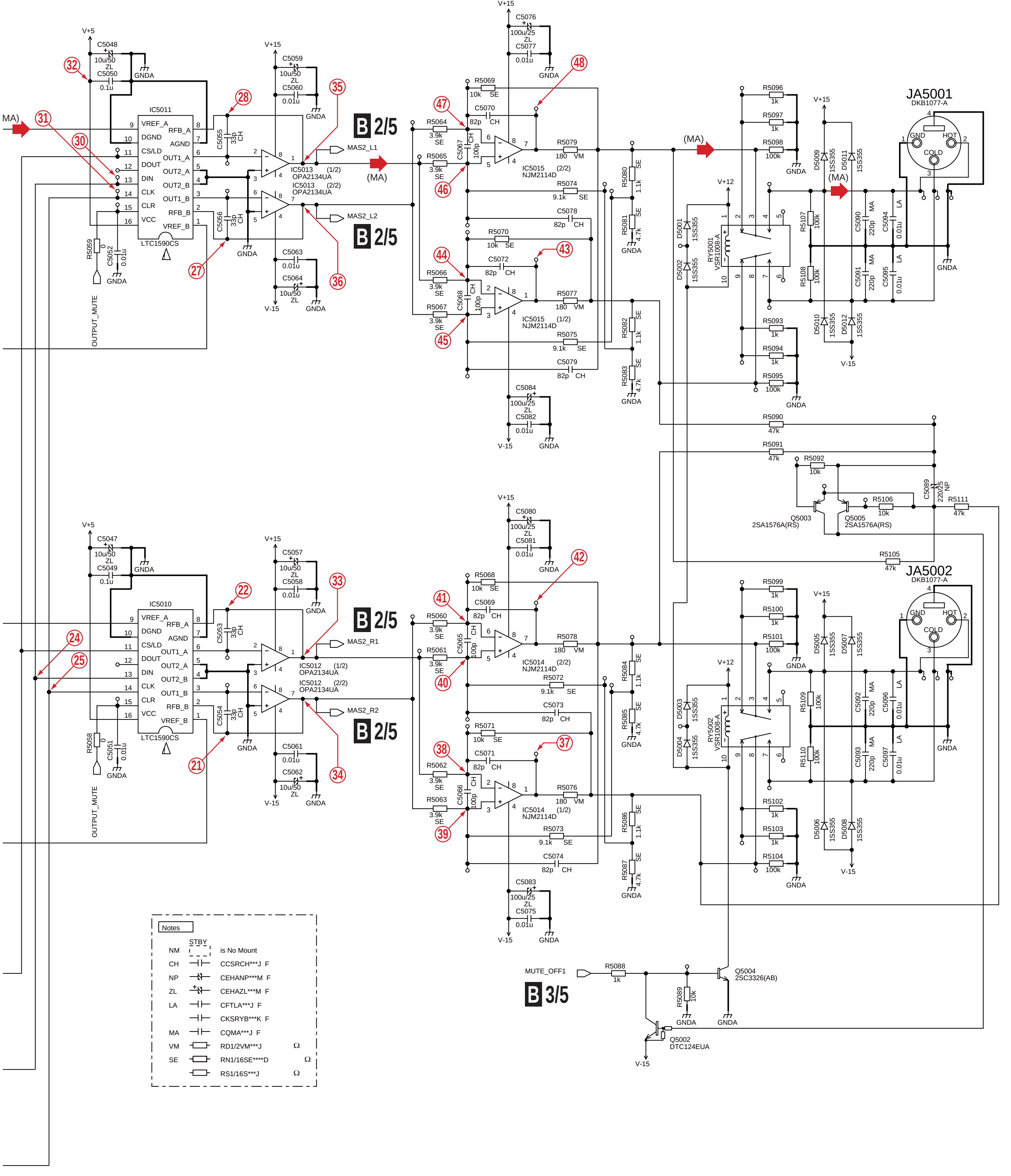

A
B
C
D
E
F
56
57
58
59
60
61
62
63
7
8
9
10
11
RST_5V
A 1/5,2/5,3/5,4/5
RST_3R3V
A 1/5,2/5,3/5
R4285
56
MCK
A 1/5,2/5,3/5,4/5
R4286
56
BCK
A 1/5,2/5,3/5,4/5
R4287
56
LRCK
A 1/5,2/5,3/5,4/5
R4288
56
VR_CLK
A 1/5,2/5,3/5
R4289
56
VR_DATA
A 1/5,2/5,3/5
V3R3
C4298
100u/10
ZL
C4301
0.1u
GNDA
V+5
C4299
100u/10
ZL
C4302
0.1u
GNDA
V+12
C4300
100u/25
ZL
C4303
0.1u
GNDA
V+15
C4305
100u/25
ZL
C4308
0.01u
C4306
100u/25
ZL
C4309
0.01u
V-15
GNDA
CN4014
S8B-EH
8 V3R3
7 GNDA
6 V+5
5 V+12
4 GNDA
3 V-15
2 GNDA
1 V+15B
B 3/5 CN5006
CN4015
19R-1.25FJ
19 GNDD
18 GNDD
17 GNDD
16 DSP_RST
15 GNDD
14 MCK
13 GNDD
12 BCK
11 GNDD
10 LRCK
9 GNDD
8 VR_CLK
7 GNDD
6 VR_DATA
5 GNDD
4 REC_DATA
3 GNDD
2 MASTER_DATA
1 GNDD
REC_DATA
(RECD)
MASTER_DATA
(MAD)
GNDD
B 3/5 CN5005
CN4016
19R-1.25FJ
1 GNDD
2 FADER_ST_3+
3 FADER_ST_3-
4 FADER_ST_4+
5 FADER_ST_4-
6 GNDD
7 INPUT_SEL3
8 INPUT_SEL4
9 GNDD
10 CH3_DATA
11 CH4_DATA
12 VR_CS3
13 VR_CS4
14 VR_CS5
15 MUTE_OFF1
16 MUTE_OFF2
17 ATT
18 VR_MUTE
19 BOOTH_MUTE
FADER_ST_3+
FADER_ST_3-
FADER_ST_4+
FADER_ST_4-
INPUT_SEL3
INPUT_SEL4
CH3_DATA
(CH3D)
CH4_DATA
(CH4D)
VR_CS3
VR_CS4
VR_CS5
MUTE_OFF1
MUTE_OFF2
ATT
VR_MUTE
A 4/5
BOOTH_MUTE
GNDD
B 3/5 CN5004
KN4001
VNF1084-A-T
KN4002
VNF1084-A-T
GNDD
GNDD

10.6 AUD2 ASSY (1/5)


A
B
C
D
E
F
B 1/5 AUD2 ASSY
(DWX2721)
B 3/5 MCK
B 3/5 RST_3R3V
B 3/5
BCK
MASTER_DATA
(MAD)
LRCK
VR_MUTE
RST_5V
OUTPUT_MUTE
IC5001 TC7SH08FUS1
IC5002 TC7SH08FUS1
IC5064 TC7SH08FUS1
IC5003 TC7SH08FUS1
IC5063 TC7SET08FUS1
INB
INA
GND
VCC
OUTY
C5001 0.1u
C5002 0.1u
C5355 0.1u
C5003 0.1u
C5354 0.1u
R5002 180
R5003 180
R5351 180
R5004 180
R5005 100
V3R3
V+5
GNDD
GNDA
16
17
18
19
9
55
C5005 10u/50 ZL
C5006 0.1u
C5004 0.01u
R5006 10k
R5007 10k
R5008 10k
R5009 10k
R5010 10k
IC5004 AK4393VF
DVSS
DVDD
MCLK
PDN
BICK
SDATA
LRCK
SMUTE/CSN
DFS
DEM0/CCLK
DEM1/CDTI
DIF0
DIF1
DIF2
CKS2
CKS1
CKS0
P/S
VCOM
AOUTL+
AOUTL-
AOUTR+
AOUTR-
AVSS
AVDD
VREFH
VREFL
BVSS
C5009 0.1u
C5010 0.1u
C5011 100u/10 ZL
C5012 0.1u
C5007 220u/10 ZL
(MA)
5
6
7
8
V+15
V-15
C5032 100u/25 ZL
C5035 0.01u
C5034 100u/25 ZL
C5037 0.01u
C5033 0.01u
C5038 100u/25 ZL
C5031 0.01u
C5036 100u/25 ZL
R5036 12k SE
R5049 12k SE
R5039 12k SE
R5050 12k SE
R5042 12k SE
R5051 12k SE
R5045 12k SE
R5052 12k SE
R5011 1.2k SE
R5018 1.2k SE
R5019 1.2k SE
R5012 1.2k SE
R5013 1.2k SE
R5014 1.2k SE
R5015 1.2k SE
R5016 1.2k SE
R5027 1.1k SE
R5028 1.1k SE
R5029 1.1k SE
R5024 1.1k SE
R5030 1.1k SE
R5025 1.1k SE
R5031 1.1k SE
R5026 1.1k SE
R5037 1k SE
R5038 1k SE
R5040 1k SE
R5041 1k SE
R5043 1k SE
R5044 1k SE
R5046 1k SE
R5047 1k SE
R5020 12k SE
R5032 12k SE
R5021 12k SE
R5033 12k SE
R5022 12k SE
R5034 12k SE
R5023 12k SE
R5035 12k SE
C5013 8200p MA
C5014 8200p MA
C5015 8200p MA
C5016 8200p MA
C5018 1500p CH
C5019 1500p CH
C5020 1500p CH
C5021 1500p CH
C5023 150p CH
C5022 150p CH
C5024 150p CH
C5025 150p CH
C5030 150p CH
C5026 150p CH
C5029 150p CH
C5027 150p CH
IC5008 (1/2) NJM4580MD
IC5008 (2/2) NJM4580MD
IC5009 (2/2) NJM4580MD
IC5009 (1/2) NJM4580MD
STBY
C5041 NM
C5043 NM
C5039 NM
C5045 NM
C5042 47u/25 CCH1354-A
C5044 47u/25 CCH1354-A
C5040 47u/25 CCH1354-A
C5046 47u/25 CCH1354-A
R5054 100k
R5055 100k
R5056 100k
R5057 100k
29
26
23
20
31
30
32
24
25
C5048 10u/50 ZL
C5050 0.1u
C5047 10u/50 ZL
C5049 0.1u
R5059 0
C5052
R5058 0
C5051
OUTPUT_MUTE
GN
VR_CS5
VR_DATA
VR_CLK
IC5005 TC7SET08FUS1
IC5006 TC7SET08FUS1
IC5007 TC7SET08FUS1
INB
INA
GND
Vcc
OUTY
C5008 0.1u
C5017 0.1u
C5028 0.1u
R5017 100
R5048 100
R5053 100
B 1/5

AUDIO & VIDEO SIGNAL ROUTE

(MA) ➡ : MASTER L CH SIGNAL
(MAD) ➡ : MASTER DIGITAL CH SIGNAL


A
B
C
D
E
F
(MA)
V+5
C5048
10u/50
ZL
C5050
0.1u
GNDA
IC5011
VREF_A
DGND
CS/LD
DOUT
DIN
CLK
CLR
VCC
RFB_A
AGND
OUT1_A
OUT2_A
OUT2_B
OUT1_B
RFB_B
VREF_B
LTC1590CS
R5059
0
C5052
0.01u
C5055
33p
CH
C5056
OUTPUT_MUTE
V+15
C5059
10u/50
ZL
C5060
0.01u
IC5013 (1/2)
OPA2134UA
IC5013 (2/2)
OPA2134UA
C5063
0.01u
C5064
10u/50
V-15
MAS2_L1
MAS2_L2
B 2/5
(MA)
R5069
10k
SE
C5070
82p
R5064
3.9k
R5065
C5067
100p
C5076
100u/25
C5077
IC5015 (2/2)
NJM2114D
R5079
180
VM
R5074
9.1k
C5078
R5070
C5072
R5066
R5067
C5068
IC5015 (1/2)
R5077
R5075
C5079
C5084
C5082
R5080
1.1k
R5081
4.7k
R5082
R5083
R5096
1k
R5097
R5098
100k
D5009
D5011
1SS355
V+12
D5001
D5002
RY5001
VSR1008-A
R5107
R5108
C5090
220p
MA
C5094
0.01u
LA
C5091
C5095
D5010
D5012
R5093
R5094
R5095
JA5001
DKB1077-A
GND
HOT
COLD
R5090
47k
R5091
R5092
10k
C5089
22u/25
NP
R5106
R5111
Q5003
2SA1576A(RS)
Q5005
2SA1576A(RS)
R5105
JA5002
IC5010
C5047
C5049
R5058
C5051
C5053
C5054
C5057
C5058
IC5012 (1/2)
IC5012 (2/2)
C5061
C5062
MAS2_R1
MAS2_R2
R5068
C5069
R5060
R5061
C5065
C5080
C5081
IC5014 (2/2)
NJM2114D
R5078
R5072
C5073
R5071
C5071
R5062
R5063
C5066
IC5014 (1/2)
R5076
R5073
C5074
C5083
C5075
R5084
R5085
R5086
R5087
R5099
R5100
R5101
D5005
D5007
D5003
D5004
RY5002
R5109
R5110
C5092
C5096
C5093
C5097
D5006
D5008
R5102
R5103
R5104
MUTE_OFF1
B 3/5
R5088
1k
R5089
10k
Q5004
2SC3326(AB)
Q5002
DTC124EUA
㉑
㉒
㉔
㉕
㉗
㉘
㉚
㉛
㉜
㉝
㉞
㉟
㊱
(37)
(38)
(39)
(40)
(41)
(42)
(43)
(44)
(45)
(46)
(47)
(48)

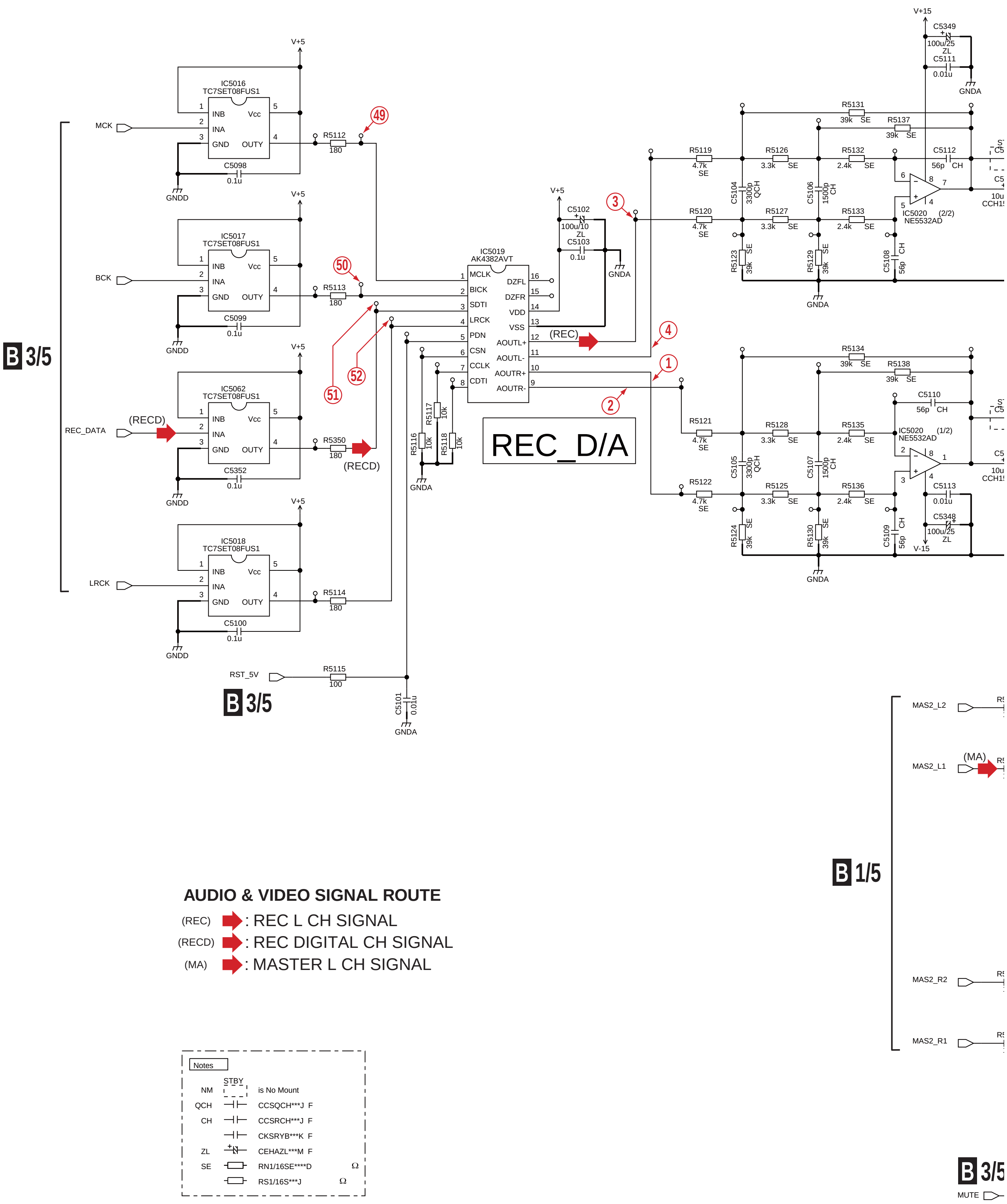
Notes

NM	STBY	is No Mount
CH	⊣⊢	CCSRCH***J F
NP	⊣⊢	CEHANP***M F
ZL	⊣⊢	CEHAZL***M F
LA	⊣⊢	CFTLA***J F
	⊣⊢	CKSRYB***K F
MA	⊣⊢	CQMA***J F
VM	▭	RD1/2VM***J Ω
SE	▭	RN1/16SE****D Ω
	▭	RS1/16S***J Ω

B 1/5

10.7 AUD2 ASSY (2/5)

B 2/5 AUD2 ASSY
(DWX2721)



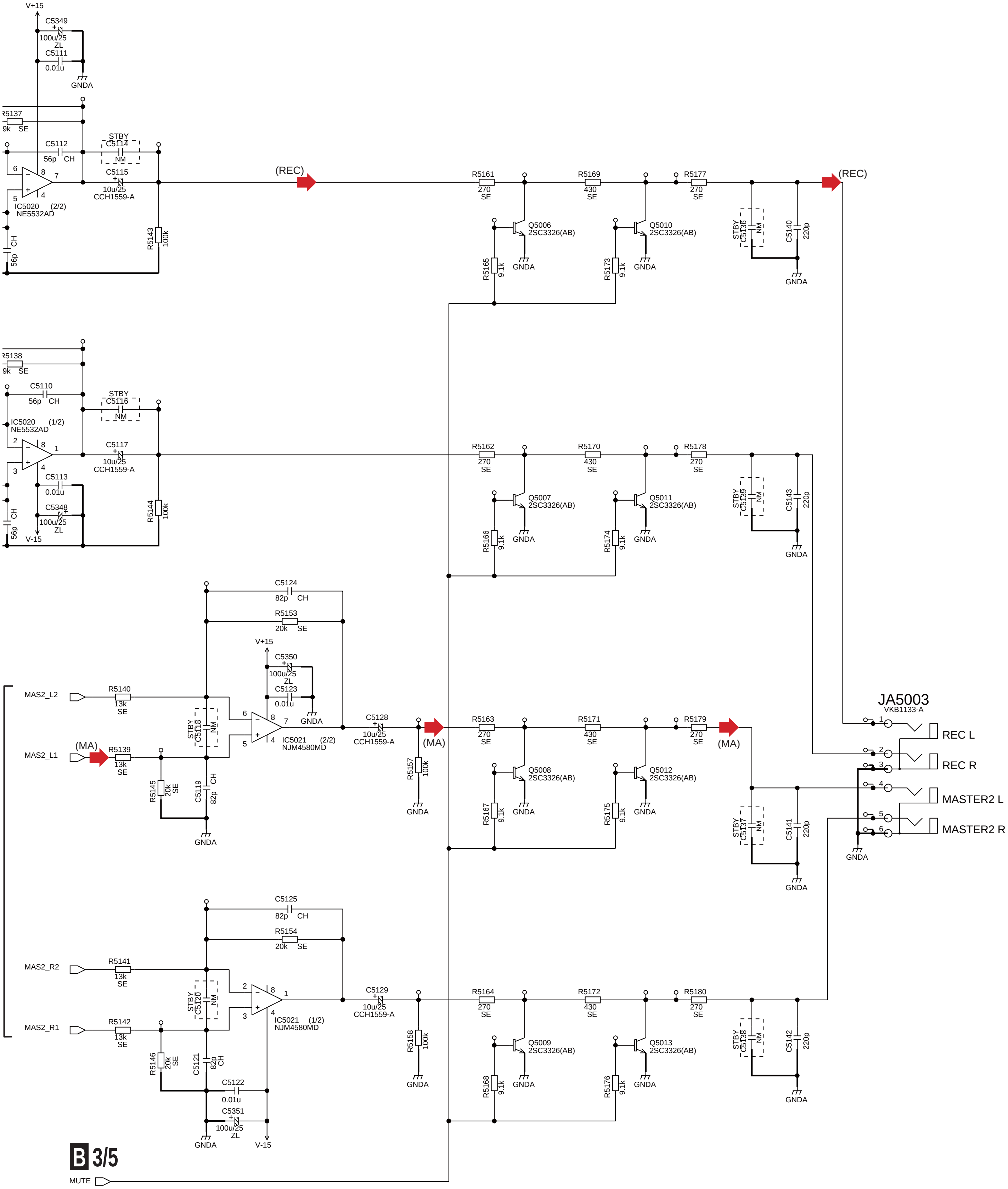
B 3/5
MCK
BCK
REC_DATA
(RECD)
LRCK
IC5016
TC7SET08FUS1
IC5017
TC7SET08FUS1
IC5062
TC7SET08FUS1
IC5018
TC7SET08FUS1
INB
INA
GND
Vcc
OUTY
V+5
C5098 0.1u
C5099 0.1u
C5352 0.1u
C5100 0.1u
GNDD
R5112 180
R5113 180
R5350 180
R5114 180
(RECD)
49
50
51
52
RST_5V
R5115 100
C5101 0.01u
GNDA
B 3/5
IC5019
AK4382AVT
MCLK
BICK
SDTI
LRCK
PDN
CSN
CCLK
CDTI
DZFL
DZFR
VDD
VSS
AOUTL+
AOUTL-
AOUTR+
AOUTR-
R5116 10k
R5117 10k
R5118 10k
C5102 100u/10 ZL
C5103 0.1u
(REC)
3
4
1
2
REC_D/A
V+15
C5349 100u/25 ZL
C5111 0.01u
R5131 39k SE
R5137 39k SE
R5119 4.7k SE
R5126 3.3k SE
R5132 2.4k SE
C5112 56p CH
R5120 4.7k SE
R5127 3.3k SE
R5133 2.4k SE
C5104 3300p QCH
C5106 1500p CH
R5123 39k SE
R5129 39k SE
C5108 56p CH
IC5020 (2/2)
NE5532AD
10u
CCH15
R5134 39k SE
R5138 39k SE
C5110 56p CH
R5121 4.7k SE
R5128 3.3k SE
R5135 2.4k SE
IC5020 (1/2)
NE5532AD
R5122 4.7k SE
R5125 3.3k SE
R5136 2.4k SE
C5105 3300p QCH
C5107 1500p CH
R5124 39k SE
R5130 39k SE
C5109 56p CH
C5113 0.01u
C5348 100u/25 ZL
V-15
MAS2_L2
MAS2_L1
(MA)
MAS2_R2
MAS2_R1
B 1/5
B 3/5
MUTE

AUDIO & VIDEO SIGNAL ROUTE

(REC) ➡ : REC L CH SIGNAL
(RECD) ➡ : REC DIGITAL CH SIGNAL
(MA) ➡ : MASTER L CH SIGNAL

Notes

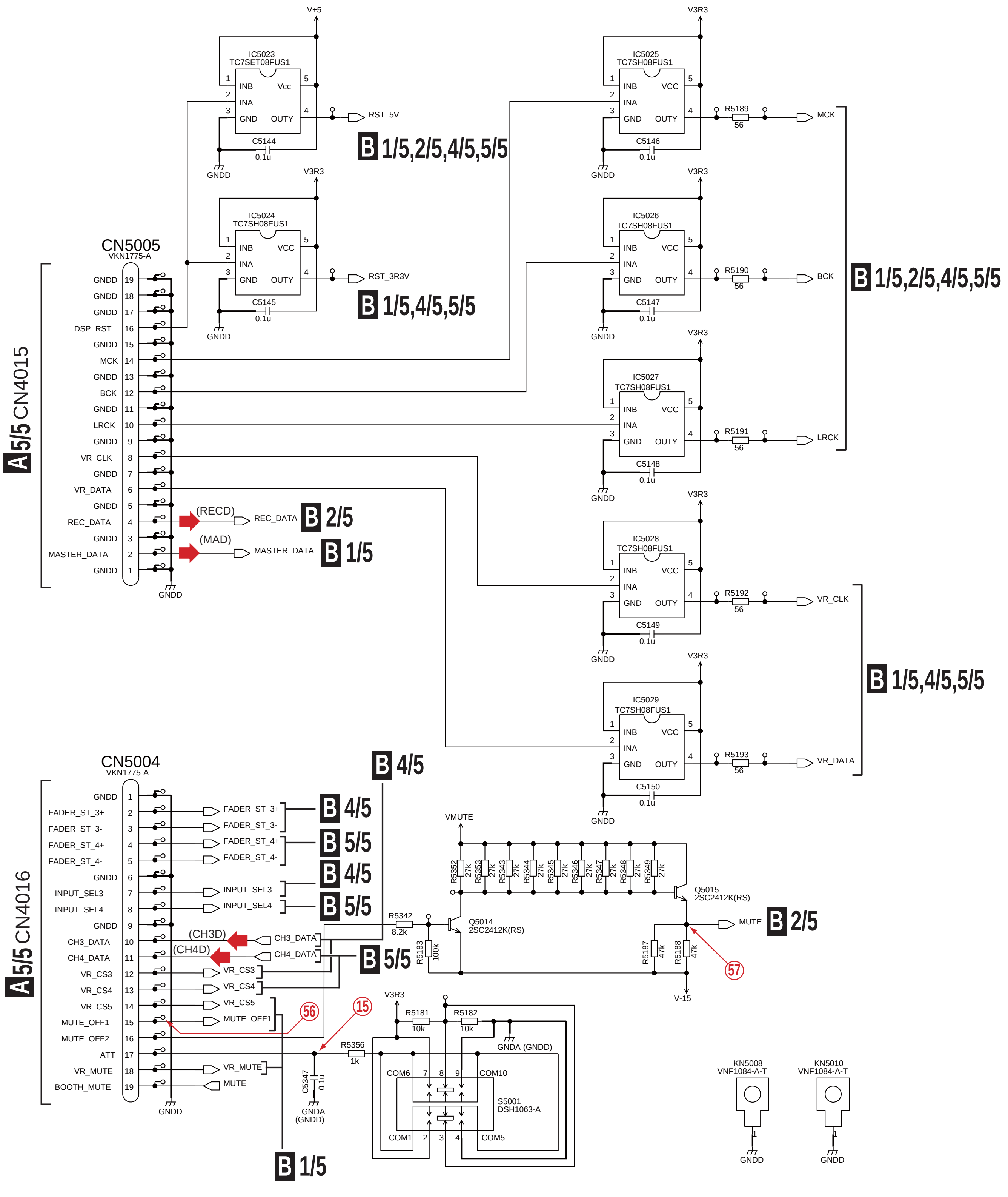
NM	STBY ┆	is No Mount	
QCH	⊣⊢	CCSQCH***J F	
CH	⊣⊢	CCSRCH***J F	
	⊣⊢	CKSRYB***K F	
ZL	⊣⊢	CEHAZL***M F	
SE	▭	RN1/16SE****D	Ω
	▭	RS1/16S***J	Ω



V+15
C5349
100u/25
ZL
C5111
0.01u
GNDA
R5137
9k SE
C5112
56p CH
STBY
C5114
NM
C5115
10u/25
CCH1559-A
IC5020 (2/2)
NE5532AD
56p CH
R5143
100k
(REC)
R5161
270
SE
R5169
430
SE
R5177
270
SE
(REC)
Q5006
2SC3326(AB)
Q5010
2SC3326(AB)
R5165
9.1k
R5173
9.1k
STBY
C5136
NM
C5140
220p
R5138
9k SE
C5110
56p CH
STBY
C5116
NM
IC5020 (1/2)
NE5532AD
C5117
10u/25
CCH1559-A
C5113
0.01u
C5348
100u/25
ZL
V-15
R5144
100k
R5162
270
SE
R5170
430
SE
R5178
270
SE
Q5007
2SC3326(AB)
Q5011
2SC3326(AB)
R5166
9.1k
R5174
9.1k
STBY
C5139
NM
C5143
220p
C5124
82p CH
R5153
20k SE
V+15
C5350
100u/25
ZL
C5123
0.01u
MAS2_L2
R5140
13k
SE
MAS2_L1
(MA)
R5139
13k
SE
STBY
C5118
NM
IC5021 (2/2)
NJM4580MD
R5145
20k
SE
C5119
82p
CH
C5128
10u/25
CCH1559-A
(MA)
R5157
100k
R5163
270
SE
R5171
430
SE
R5179
270
SE
(MA)
Q5008
2SC3326(AB)
Q5012
2SC3326(AB)
R5167
9.1k
R5175
9.1k
STBY
C5137
NM
C5141
220p
JA5003
VKB1133-A
REC L
REC R
MASTER2 L
MASTER2 R
C5125
82p CH
R5154
20k SE
MAS2_R2
R5141
13k
SE
MAS2_R1
R5142
13k
SE
STBY
C5120
NM
IC5021 (1/2)
NJM4580MD
R5146
20k
SE
C5121
82p
CH
C5122
0.01u
C5351
100u/25
ZL
V-15
C5129
10u/25
CCH1559-A
R5158
100k
R5164
270
SE
R5172
430
SE
R5180
270
SE
Q5009
2SC3326(AB)
Q5013
2SC3326(AB)
R5168
9.1k
R5176
9.1k
STBY
C5138
NM
C5142
220p
B 3/5
MUTE

10.8 AUD2 ASSY (3/5)

B 3/5 AUD2 ASSY
(DWX2721)


V+5
IC5023
TC7SET08FUS1
INB
Vcc
INA
GND
OUTY
C5144
0.1u
GNDD
RST_5V
B 1/5,2/5,4/5,5/5
V3R3
IC5024
TC7SH08FUS1
VCC
C5145
RST_3R3V
B 1/5,4/5,5/5
IC5025
TC7SH08FUS1
C5146
R5189
56
MCK
IC5026
TC7SH08FUS1
C5147
R5190
BCK
B 1/5,2/5,4/5,5/5
IC5027
TC7SH08FUS1
C5148
R5191
LRCK
IC5028
TC7SH08FUS1
C5149
R5192
VR_CLK
B 1/5,4/5,5/5
IC5029
TC7SH08FUS1
C5150
R5193
VR_DATA
CN5005
VKN1775-A
GNDD 19
GNDD 18
GNDD 17
DSP_RST 16
GNDD 15
MCK 14
GNDD 13
BCK 12
GNDD 11
LRCK 10
GNDD 9
VR_CLK 8
GNDD 7
VR_DATA 6
GNDD 5
REC_DATA 4
GNDD 3
MASTER_DATA 2
GNDD 1
A 5/5 CN4015
(RECD)
REC_DATA
B 2/5
(MAD)
MASTER_DATA
B 1/5
CN5004
VKN1775-A
GNDD 1
FADER_ST_3+ 2
FADER_ST_3- 3
FADER_ST_4+ 4
FADER_ST_4- 5
GNDD 6
INPUT_SEL3 7
INPUT_SEL4 8
GNDD 9
CH3_DATA 10
CH4_DATA 11
VR_CS3 12
VR_CS4 13
VR_CS5 14
MUTE_OFF1 15
MUTE_OFF2 16
ATT 17
VR_MUTE 18
BOOTH_MUTE 19
A 5/5 CN4016
B 4/5
FADER_ST_3+
FADER_ST_3-
FADER_ST_4+
FADER_ST_4-
B 4/5
B 5/5
B 4/5
INPUT_SEL3
INPUT_SEL4
B 5/5
(CH3D)
CH3_DATA
(CH4D)
CH4_DATA
B 5/5
VR_CS3
VR_CS4
VR_CS5
MUTE_OFF1
VR_MUTE
MUTE
B 1/5
VMUTE
R5352 27k
R5353 27k
R5343 27k
R5344 27k
R5345 27k
R5346 27k
R5347 27k
R5348 27k
R5349 27k
Q5015
2SC2412K(RS)
R5342
8.2k
Q5014
2SC2412K(RS)
R5183
100k
R5187
47k
R5188
47k
MUTE
B 2/5
V-15
⑤⑦
⑤⑥
⑮
V3R3
R5181
10k
R5182
10k
GNDA (GNDD)
R5356
1k
C5347
0.1u
GNDA
(GNDD)
COM6
COM10
COM1
COM5
S5001
DSH1063-A
KN5008
VNF1084-A-T
KN5010
VNF1084-A-T
GNDD

B 3/5

A

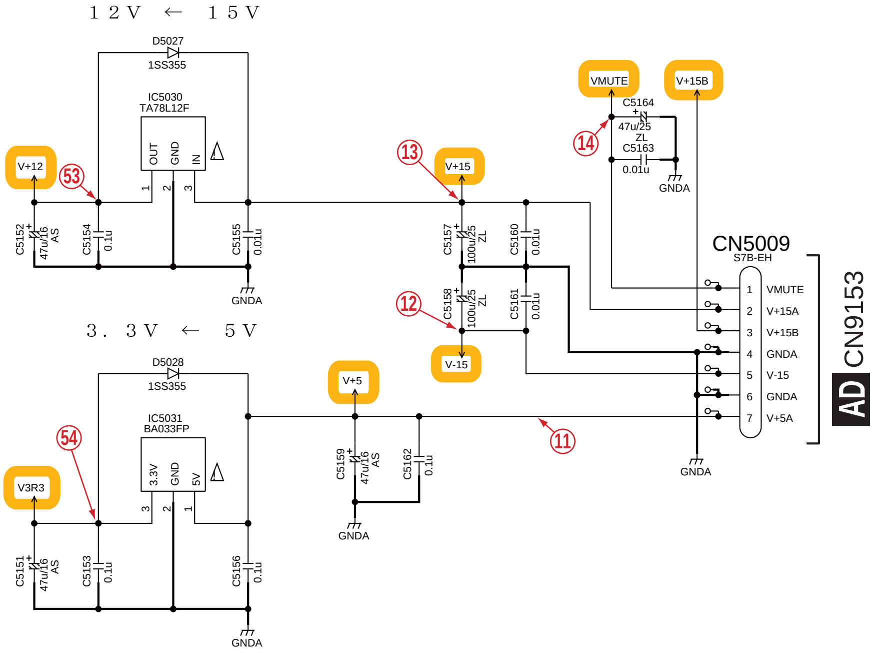
AUDIO & VIDEO SIGNAL ROUTE

(RECD) ➡ : REC DIGITAL CH SIGNAL
(MAD) ➡ : MASTER DIGITAL CH SIGNAL
(CH3D) ➡ : CH3 DIGITAL CH SIGNAL
(CH4D) ➡ : CH4 DIGITAL CH SIGNAL

B

/5,5/5

C

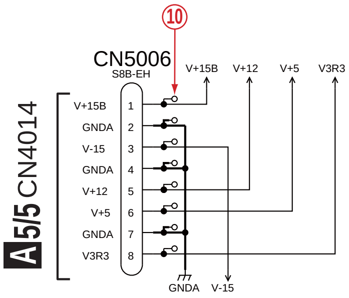


１２Ｖ ← １５Ｖ
D5027
1SS355
IC5030
TA78L12F
OUT
GND
IN
1
2
3
V+12
53
C5152
47u/16
AS
C5154
0.1u
C5155
0.01u
GNDA
13
V+15
C5157
100u/25
ZL
C5160
0.01u
12
C5158
100u/25
ZL
C5161
0.01u
V-15
VMUTE
V+15B
14
C5164
47u/25
ZL
C5163
0.01u
GNDA
CN5009
S7B-EH
1 VMUTE
2 V+15A
3 V+15B
4 GNDA
5 V-15
6 GNDA
7 V+5A
GNDA
AD CN9153
３．３Ｖ ← ５Ｖ
D5028
1SS355
IC5031
BA033FP
3.3V
GND
5V
3
2
1
54
V3R3
C5151
47u/16
AS
C5153
0.1u
C5156
0.1u
GNDA
V+5
C5159
47u/16
AS
C5162
0.1u
GNDA
11

,5/5

D

E



10
CN5006
S8B-EH
V+15B
V+12
V+5
V3R3
V+15B 1
GNDA 2
V-15 3
GNDA 4
V+12 5
V+5 6
GNDA 7
V3R3 8
GNDA
V-15
A 5/5 CN4014

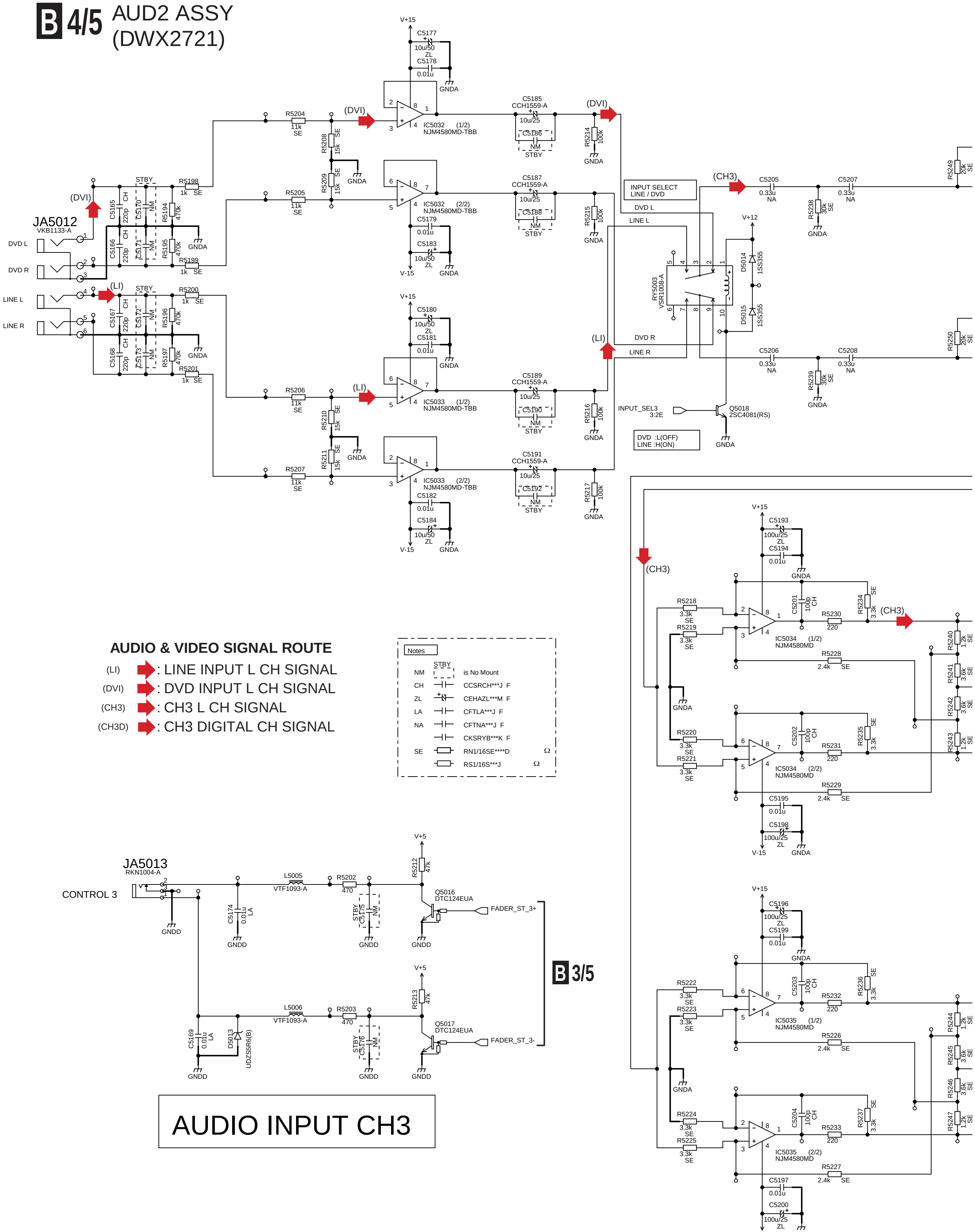
Notes

	STBY	
NM	⬚	is No Mount
AS	⊣⊢	CEHAS***M F
ZL	⊣⊢	CEHAZL***M F
	⊣⊢	CKSRYB***K F
	▭	RS1/16S***J Ω

F

10.9 AUD2 ASSY (4/5)

B 4/5 AUD2 ASSY (DWX2721)


JA5012
VKB1133-A
DVD L
DVD R
LINE L
LINE R
(DVI)
(LI)
STBY
CH
NM
C5165 220p
C5166 220p
C5167 220p
C5168 220p
C5170
C5171
C5172
C5173
R5194 470k
R5195 470k
R5196 470k
R5197 470k
R5198 1k SE
R5199 1k SE
R5200 1k SE
R5201 1k SE
GNDA
R5204 11k SE
R5205 11k SE
R5206 11k SE
R5207 11k SE
R5208 15k SE
R5209 15k SE
R5210 15k SE
R5211 15k SE
V+15
V-15
C5177 10u/50 ZL
C5178 0.01u
C5179 0.01u
C5183 10u/50 ZL
C5180 10u/50 ZL
C5181 0.01u
C5182 0.01u
C5184 10u/50 ZL
IC5032 (1/2) NJM4580MD-TBB
IC5032 (2/2) NJM4580MD-TBB
IC5033 (1/2) NJM4580MD-TBB
IC5033 (2/2) NJM4580MD-TBB
C5185 CCH1559-A 10u/25
C5186 NM STBY
C5187 CCH1559-A 10u/25
C5188 NM STBY
C5189 CCH1559-A 10u/25
C5190 NM STBY
C5191 CCH1559-A 10u/25
C5192 NM STBY
R5214 100k
R5215 100k
R5216 100k
R5217 100k
INPUT SELECT LINE / DVD
DVD L
LINE L
DVD R
LINE R
(CH3)
V+12
D5014 1SS355
D5015 1SS355
RY5003 VSR1008-A
INPUT_SEL3 3:2E
Q5018 2SC4081(RS)
DVD :L(OFF)
LINE :H(ON)
C5205 0.33u NA
C5207 0.33u NA
C5206 0.33u NA
C5208 0.33u NA
R5238 30k SE
R5239 30k SE
R5249 20k SE
R5250 20k SE
C5193 100u/25 ZL
C5194 0.01u
R5218 3.3k SE
R5219 3.3k SE
R5220 3.3k SE
R5221 3.3k SE
C5201 100p CH
C5202 100p CH
IC5034 (1/2) NJM4580MD
IC5034 (2/2) NJM4580MD
R5230 220
R5231 220
R5234 3.3k SE
R5235 3.3k SE
R5228 2.4k SE
R5229 2.4k SE
R5240 1.2k SE
R5241 3.6k SE
R5242 3.6k SE
R5243 1.2k SE
C5195 0.01u
C5198 100u/25 ZL
V+15
C5196 100u/25 ZL
C5199 0.01u
R5222 3.3k SE
R5223 3.3k SE
R5224 3.3k SE
R5225 3.3k SE
C5203 100p CH
C5204 100p CH
IC5035 (1/2) NJM4580MD
IC5035 (2/2) NJM4580MD
R5232 220
R5233 220
R5236 3.3k SE
R5237 3.3k SE
R5226 2.4k SE
R5227 2.4k SE
R5244 1.2k SE
R5245 3.6k SE
R5246 3.6k SE
R5247 1.2k SE
C5197 0.01u
C5200 100u/25 ZL
JA5013
RKN1004-A
CONTROL 3
GNDD
L5005 VTF1093-A
L5006 VTF1093-A
C5174 0.01u LA
C5169 0.01u LA
D5013 UDZS5R6(B)
R5202 470
R5203 470
C5175 STBY NM
C5176 STBY NM
V+5
R5212 47k
R5213 47k
Q5016 DTC124EUA
Q5017 DTC124EUA
FADER_ST_3+
FADER_ST_3-
B 3/5

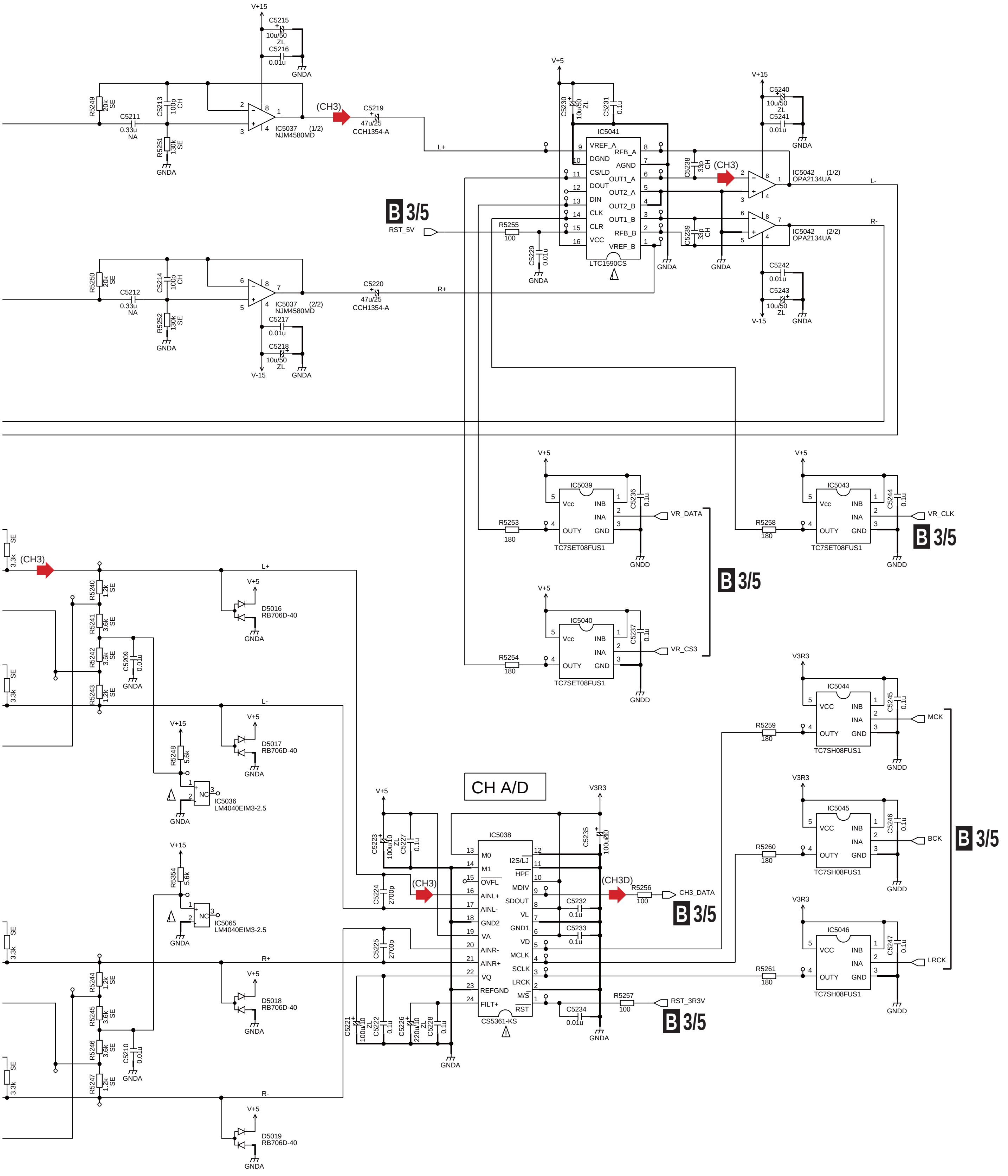
AUDIO & VIDEO SIGNAL ROUTE

(LI) ➡ : LINE INPUT L CH SIGNAL
(DVI) ➡ : DVD INPUT L CH SIGNAL
(CH3) ➡ : CH3 L CH SIGNAL
(CH3D) ➡ : CH3 DIGITAL CH SIGNAL

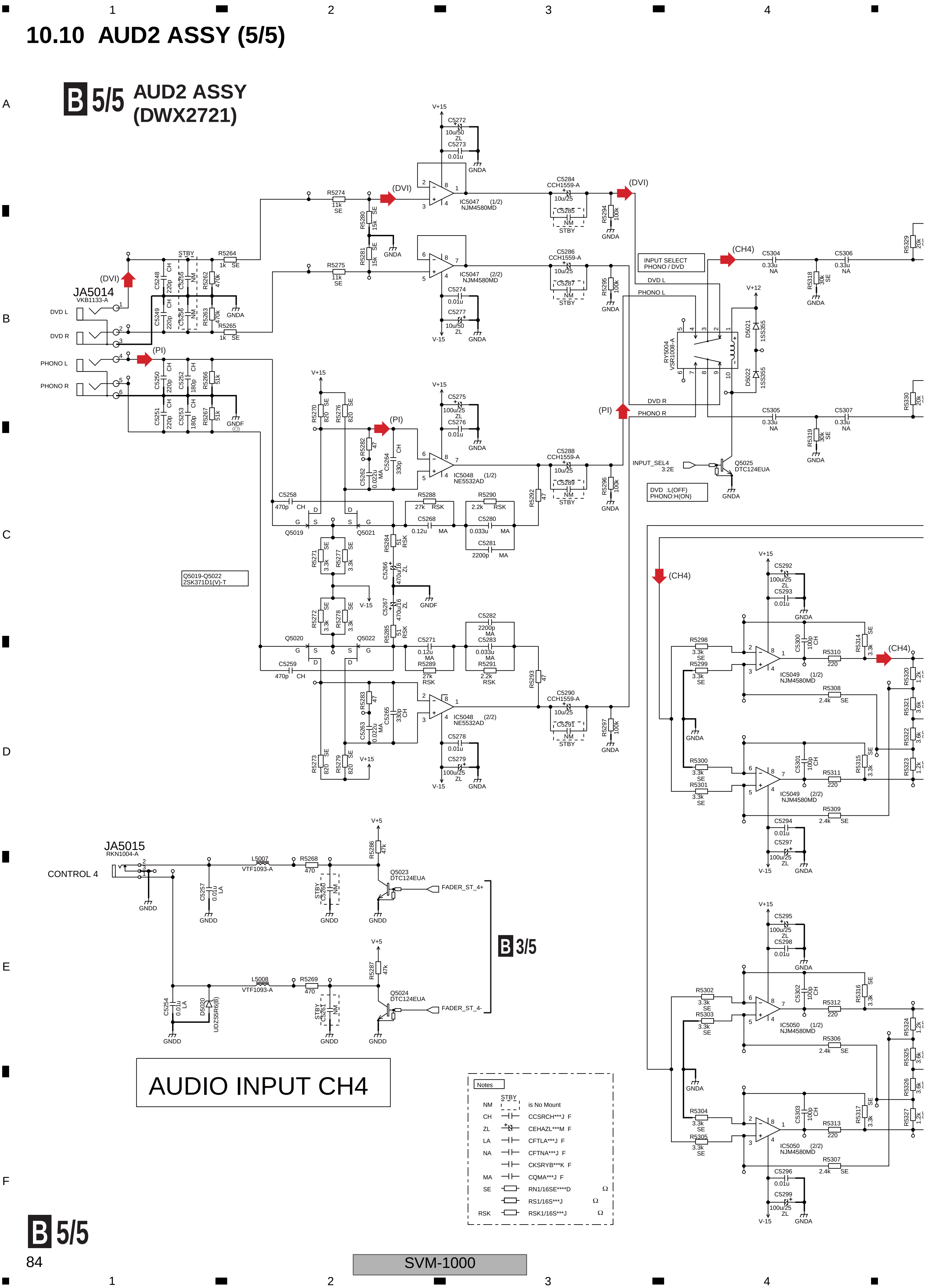
Notes

NM	STBY	is No Mount
CH		CCSRCH***J F
ZL		CEHAZL***M F
LA		CFTLA***J F
NA		CFTNA***J F
		CKSRYB***K F
SE		RN1/16SE****D Ω
		RS1/16S***J Ω

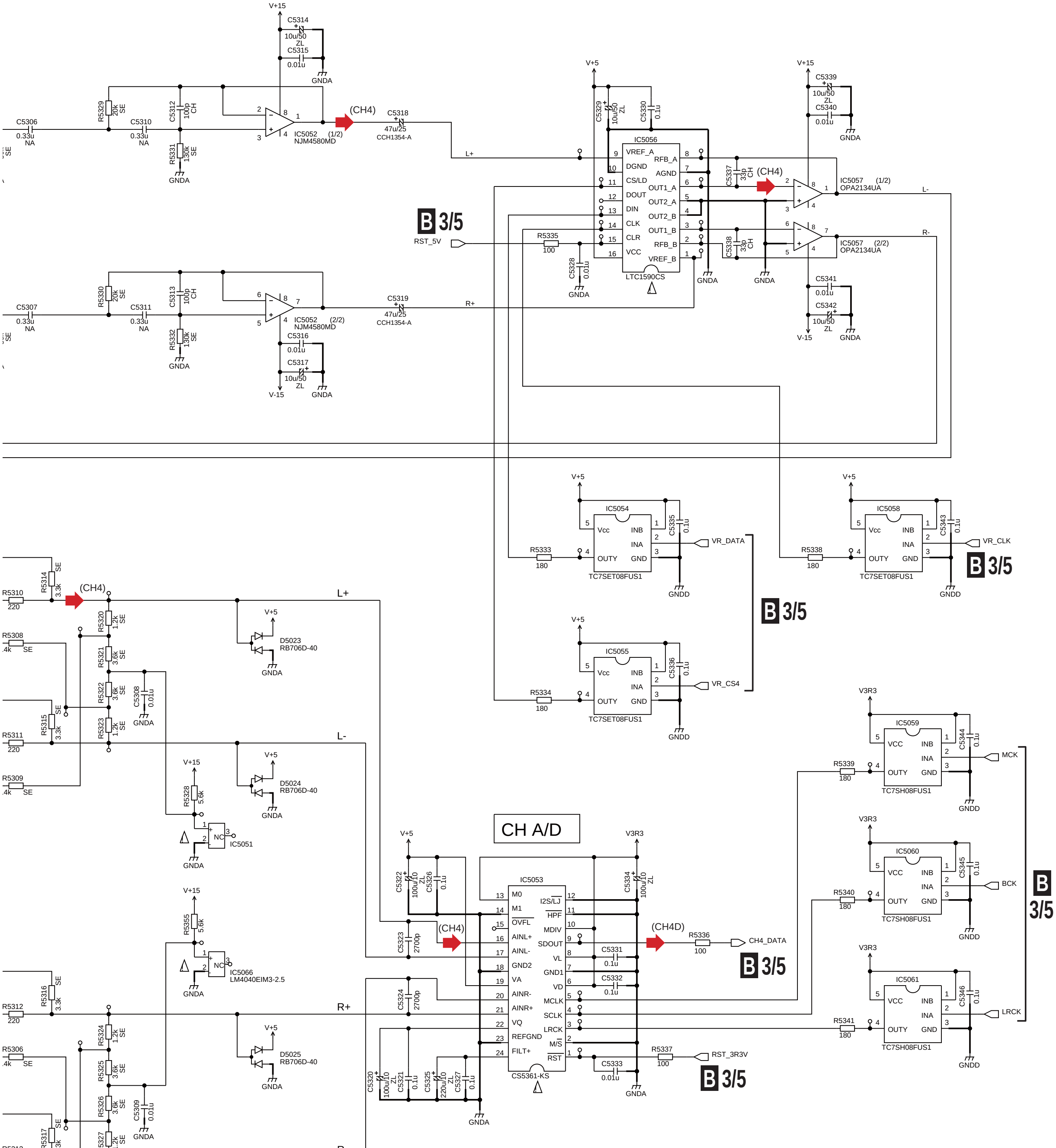
AUDIO INPUT CH3


V+15
C5215
10u/50
ZL
C5216
0.01u
GNDA
R5249
20k
SE
C5213
100p
CH
C5211
0.33u
NA
R5251
130k
SE
GNDA
IC5037 (1/2)
NJM4580MD
(CH3)
C5219
47u/25
CCH1354-A
L+
V+5
C5230
10u/50
ZL
C5231
0.1u
IC5041
VREF_A
DGND
CS/LD
DOUT
DIN
CLK
CLR
VCC
RFB_A
AGND
OUT1_A
OUT2_A
OUT2_B
OUT1_B
RFB_B
VREF_B
LTC1590CS
GNDA
C5238
33p
CH
C5239
33p
CH
(CH3)
V+15
C5240
10u/50
ZL
C5241
0.01u
GNDA
IC5042 (1/2)
OPA2134UA
IC5042 (2/2)
OPA2134UA
L-
R-
GNDA
C5242
0.01u
C5243
10u/50
ZL
V-15
GNDA
B 3/5
RST_5V
R5255
100
C5229
0.01u
GNDA
R5250
20k
SE
C5214
100p
CH
C5212
0.33u
NA
R5252
130k
SE
GNDA
IC5037 (2/2)
NJM4580MD
C5217
0.01u
C5218
10u/50
ZL
V-15
GNDA
C5220
47u/25
CCH1354-A
R+
V+5
IC5039
Vcc
INB
INA
OUTY
GND
C5236
0.1u
VR_DATA
R5253
180
TC7SET08FUS1
GNDD
V+5
IC5040
C5237
0.1u
VR_CS3
R5254
180
TC7SET08FUS1
GNDD
B 3/5
V+5
IC5043
C5244
0.1u
VR_CLK
R5258
180
TC7SET08FUS1
GNDD
B 3/5
SE
3.3k
(CH3)
L+
R5240
1.2k
SE
R5241
3.6k
SE
R5242
3.6k
SE
R5243
1.2k
SE
C5209
0.01u
GNDA
V+5
D5016
RB706D-40
GNDA
L-
V+5
D5017
RB706D-40
GNDA
V+15
R5248
5.6k
NC
IC5036
LM4040EIM3-2.5
GNDA
V+15
R5354
5.6k
NC
IC5065
LM4040EIM3-2.5
GNDA
R+
R5244
1.2k
SE
R5245
3.6k
SE
R5246
3.6k
SE
R5247
1.2k
SE
C5210
0.01u
GNDA
V+5
D5018
RB706D-40
GNDA
R-
V+5
D5019
RB706D-40
GNDA
CH A/D
V+5
C5223
100u/10
ZL
C5227
0.1u
C5224
2700p
C5225
2700p
(CH3)
IC5038
M0
M1
OVFL
AINL+
AINL-
GND2
VA
AINR-
AINR+
VQ
REFGND
FILT+
I2S/LJ
HPF
MDIV
SDOUT
VL
GND1
VD
MCLK
SCLK
LRCK
M/S
RST
CS5361-KS
C5221
100u/10
ZL
C5222
0.1u
C5226
220u/10
ZL
C5228
0.1u
GNDA
V3R3
C5235
100u/10
ZL
C5232
0.1u
C5233
0.1u
C5234
0.01u
GNDA
(CH3D)
R5256
100
CH3_DATA
B 3/5
R5257
100
RST_3R3V
B 3/5
V3R3
IC5044
VCC
INB
INA
OUTY
GND
C5245
0.1u
MCK
R5259
180
TC7SH08FUS1
GNDD
V3R3
IC5045
C5246
0.1u
BCK
R5260
180
TC7SH08FUS1
GNDD
B 3/5
V3R3
IC5046
C5247
0.1u
LRCK
R5261
180
TC7SH08FUS1
GNDD

10.10 AUD2 ASSY (5/5)



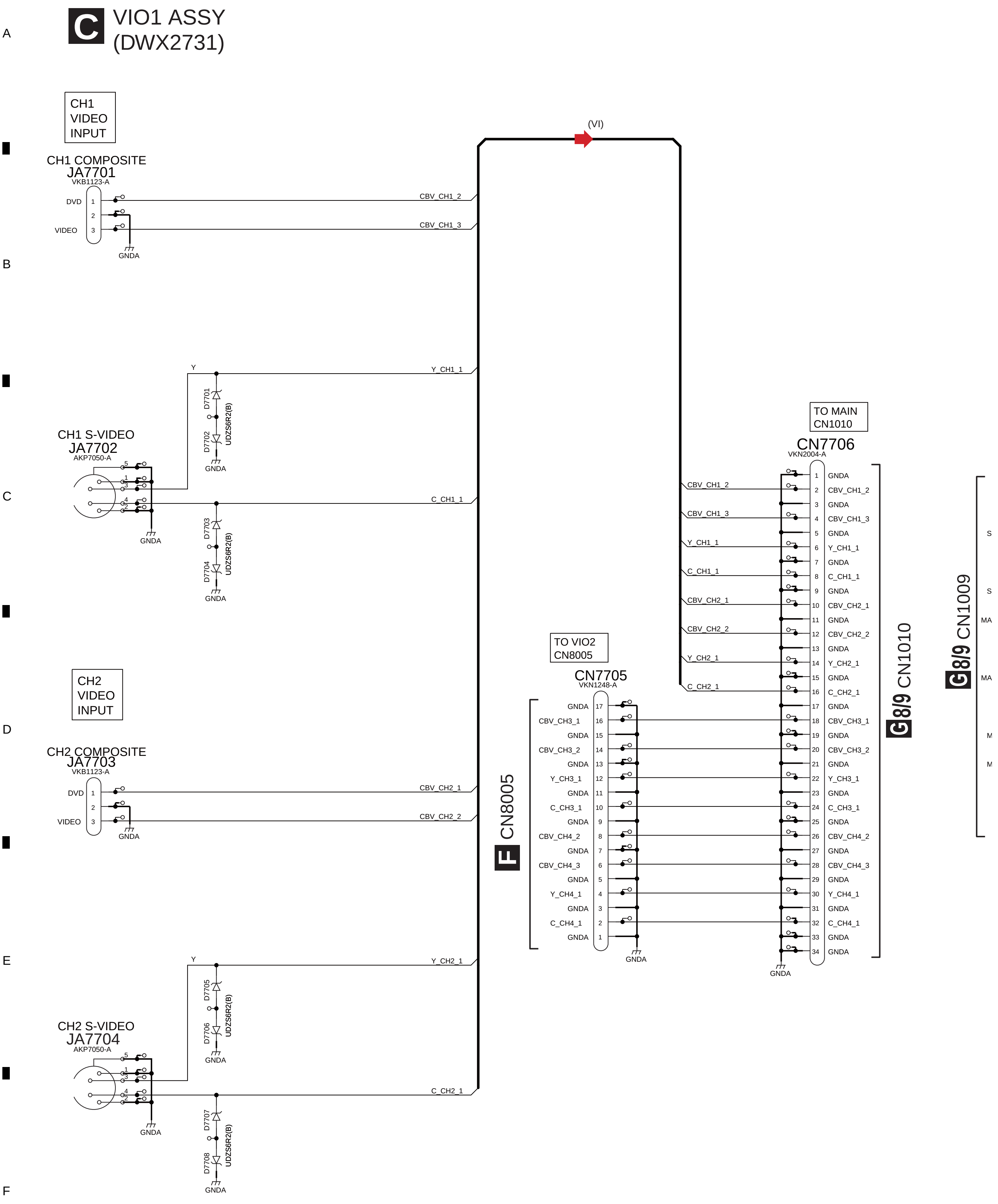
1
2
3
4
A
B
C
D
E
F
B 5/5 AUD2 ASSY
(DWX2721)
JA5014
VKB1133-A
DVD L
DVD R
PHONO L
PHONO R
(DVI)
(PI)
(CH4)
STBY
R5264 1k SE
R5265 1k SE
R5274 11k SE
R5275 11k SE
IC5047 (1/2) NJM4580MD
IC5047 (2/2) NJM4580MD
C5284 CCH1559-A 10u/25
C5286 CCH1559-A 10u/25
C5288 CCH1559-A 10u/25
C5290 CCH1559-A 10u/25
INPUT SELECT PHONO / DVD
RY5004 VSR1008-A
D5021 1SS355
D5022 1SS355
INPUT_SEL4 3:E
Q5025 DTC124EUA
DVD :L(OFF) PHONO:H(ON)
Q5019-Q5022 2SK371D1(V)-T
IC5048 (1/2) NE5532AD
IC5048 (2/2) NE5532AD
IC5049 (1/2) NJM4580MD
IC5049 (2/2) NJM4580MD
IC5050 (1/2) NJM4580MD
IC5050 (2/2) NJM4580MD
V+15
V-15
V+12
V+5
GNDA
GNDF
GNDD
JA5015
RKN1004-A
CONTROL 4
L5007 VTF1093-A
L5008 VTF1093-A
R5268 470
R5269 470
R5286 47k
R5287 47k
Q5023 DTC124EUA
Q5024 DTC124EUA
D5020 UDZS5R6(B)
FADER_ST_4+
FADER_ST_4-
B 3/5
AUDIO INPUT CH4
Notes
NM STBY is No Mount
CH CCSRCH***J F
ZL CEHAZL***M F
LA CFTLA***J F
NA CFTNA***J F
CKSRYB***K F
MA CQMA***J F
SE RN1/16SE****D Ω
RS1/16S***J Ω
RSK RSK1/16S***J Ω
B 5/5

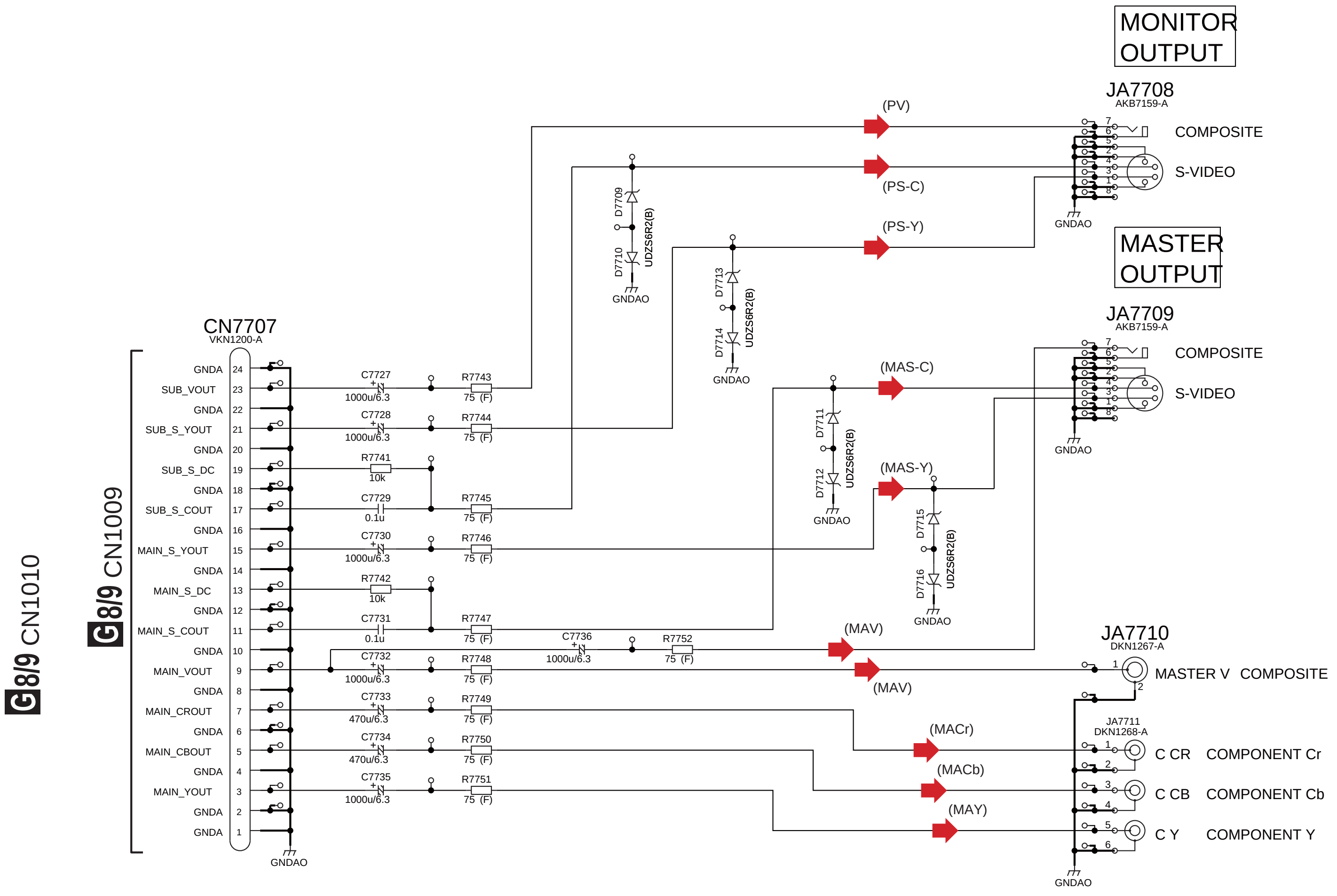

A
B
C
D
E
V+15
C5314
10u/50
ZL
C5315
0.01u
GNDA
R5329
20k
SE
C5312
100p
CH
C5306
0.33u
NA
C5310
0.33u
NA
R5331
130k
SE
IC5052 (1/2)
NJM4580MD
(CH4)
C5318
47u/25
CCH1354-A
L+
V+5
C5329
10u/50
ZL
C5330
0.1u
IC5056
VREF_A
RFB_A
DGND
AGND
CS/LD
OUT1_A
DOUT
OUT2_A
DIN
OUT2_B
CLK
OUT1_B
CLR
RFB_B
VCC
VREF_B
LTC1590CS
C5337
33p
CH
C5338
33p
CH
V+15
C5339
10u/50
ZL
C5340
0.01u
GNDA
IC5057 (1/2)
OPA2134UA
L-
IC5057 (2/2)
OPA2134UA
R-
C5341
0.01u
C5342
10u/50
ZL
V-15
B 3/5
RST_5V
R5335
100
C5328
0.01u
GNDA
R5330
20k
SE
C5313
100p
CH
C5307
0.33u
NA
C5311
0.33u
NA
R5332
130k
SE
IC5052 (2/2)
NJM4580MD
C5316
0.01u
C5317
10u/50
ZL
V-15
C5319
47u/25
CCH1354-A
R+
IC5054
Vcc
INB
INA
OUTY
GND
TC7SET08FUS1
C5335
0.1u
VR_DATA
R5333
180
GNDD
IC5058
C5343
0.1u
VR_CLK
R5338
180
B 3/5
IC5055
C5336
0.1u
VR_CS4
R5334
180
R5314
3.3k
SE
R5310
220
(CH4)
L+
R5308
SE
R5320
1.2k
SE
R5321
3.6k
SE
R5322
3.6k
SE
C5308
0.01u
GNDA
R5315
3.3k
SE
R5323
1.2k
SE
R5311
220
L-
R5309
SE
V+5
D5023
RB706D-40
D5024
RB706D-40
V+15
R5328
5.6k
NC
IC5051
CH A/D
V+5
C5322
100u/10
ZL
C5326
0.1u
V3R3
C5334
100u/10
ZL
IC5053
M0
M1
OVFL
AINL+
AINL-
GND2
VA
AINR-
AINR+
VQ
REFGND
FILT+
I2S/LJ
HPF
MDIV
SDOUT
VL
GND1
VD
MCLK
SCLK
LRCK
M/S
RST
CS5361-KS
(CH4)
C5323
2700p
C5324
2700p
C5331
0.1u
C5332
0.1u
(CH4D)
R5336
100
CH4_DATA
R5337
100
RST_3R3V
C5333
0.01u
C5320
100u/10
ZL
C5321
0.1u
C5325
220u/10
ZL
C5327
0.1u
GNDA
V+15
R5355
5.6k
IC5066
LM4040EIM3-2.5
R5316
3.3k
SE
R5312
220
R+
R5306
SE
R5324
1.2k
SE
R5325
3.6k
SE
R5326
3.6k
SE
C5309
0.01u
R5317
3.3k
SE
R5327
1.2k
SE
R5313
220
R-
R5307
SE
D5025
RB706D-40
D5026
RB706D-40
V3R3
IC5059
VCC
TC7SH08FUS1
C5344
0.1u
MCK
R5339
180
IC5060
C5345
0.1u
BCK
R5340
180
IC5061
C5346
0.1u
LRCK
R5341
180
B 3/5

AUDIO & VIDEO SIGNAL ROUTE

(DVI)	➡: DVD INPUT L CH SIGNAL
(PI)	➡: PHONO INPUT L CH SIGNAL
(CH4)	➡: CH4 L CH SIGNAL
(CH4D)	➡: CH4 DIGITAL CH SIGNAL

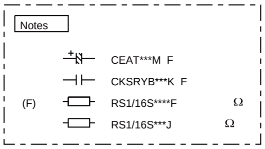
10.11 VIO1 ASSY


A
B
C
D
E
F
C
VIO1 ASSY
(DWX2731)
CH1
VIDEO
INPUT
CH1 COMPOSITE
JA7701
VKB1123-A
DVD
VIDEO
1
2
3
GNDA
CBV_CH1_2
CBV_CH1_3
(VI)
Y
Y_CH1_1
D7701
D7702
UDZS6R2(B)
GNDA
CH1 S-VIDEO
JA7702
AKP7050-A
5
1
3
4
2
GNDA
C_CH1_1
D7703
D7704
UDZS6R2(B)
GNDA
CH2
VIDEO
INPUT
CH2 COMPOSITE
JA7703
VKB1123-A
DVD
VIDEO
1
2
3
GNDA
CBV_CH2_1
CBV_CH2_2
Y
Y_CH2_1
D7705
D7706
UDZS6R2(B)
GNDA
CH2 S-VIDEO
JA7704
AKP7050-A
5
1
3
4
2
GNDA
C_CH2_1
D7707
D7708
UDZS6R2(B)
GNDA
F CN8005
TO VIO2
CN8005
CN7705
VKN1248-A
GNDA 17
CBV_CH3_1 16
GNDA 15
CBV_CH3_2 14
GNDA 13
Y_CH3_1 12
GNDA 11
C_CH3_1 10
GNDA 9
CBV_CH4_2 8
GNDA 7
CBV_CH4_3 6
GNDA 5
Y_CH4_1 4
GNDA 3
C_CH4_1 2
GNDA 1
GNDA
TO MAIN
CN1010
CN7706
VKN2004-A
CBV_CH1_2
CBV_CH1_3
Y_CH1_1
C_CH1_1
CBV_CH2_1
CBV_CH2_2
Y_CH2_1
C_CH2_1
1 GNDA
2 CBV_CH1_2
3 GNDA
4 CBV_CH1_3
5 GNDA
6 Y_CH1_1
7 GNDA
8 C_CH1_1
9 GNDA
10 CBV_CH2_1
11 GNDA
12 CBV_CH2_2
13 GNDA
14 Y_CH2_1
15 GNDA
16 C_CH2_1
17 GNDA
18 CBV_CH3_1
19 GNDA
20 CBV_CH3_2
21 GNDA
22 Y_CH3_1
23 GNDA
24 C_CH3_1
25 GNDA
26 CBV_CH4_2
27 GNDA
28 CBV_CH4_3
29 GNDA
30 Y_CH4_1
31 GNDA
32 C_CH4_1
33 GNDA
34 GNDA
GNDA
G 8/9 CN1010
G 8/9 CN1009
S
S
MA
MA
M
M


MONITOR OUTPUT
JA7708
AKB7159-A
COMPOSITE
S-VIDEO
GNDAO
MASTER OUTPUT
JA7709
AKB7159-A
COMPOSITE
S-VIDEO
GNDAO
(PV)
(PS-C)
(PS-Y)
(MAS-C)
(MAS-Y)
(MAV)
(MAV)
(MACr)
(MACb)
(MAY)
D7709
D7710
UDZS6R2(B)
GNDAO
D7713
D7714
UDZS6R2(B)
GNDAO
D7711
D7712
UDZS6R2(B)
GNDAO
D7715
D7716
UDZS6R2(B)
GNDAO
CN7707
VKN1200-A
G8/9 CN1010
G8/9 CN1009
GNDA 24
SUB_VOUT 23
GNDA 22
SUB_S_YOUT 21
GNDA 20
SUB_S_DC 19
GNDA 18
SUB_S_COUT 17
GNDA 16
MAIN_S_YOUT 15
GNDA 14
MAIN_S_DC 13
GNDA 12
MAIN_S_COUT 11
GNDA 10
MAIN_VOUT 9
GNDA 8
MAIN_CROUT 7
GNDA 6
MAIN_CBOUT 5
GNDA 4
MAIN_YOUT 3
GNDA 2
GNDA 1
GNDAO
C7727 1000u/6.3
R7743 75 (F)
C7728 1000u/6.3
R7744 75 (F)
R7741 10k
C7729 0.1u
R7745 75 (F)
C7730 1000u/6.3
R7746 75 (F)
R7742 10k
C7731 0.1u
R7747 75 (F)
C7736 1000u/6.3
R7752 75 (F)
C7732 1000u/6.3
R7748 75 (F)
C7733 470u/6.3
R7749 75 (F)
C7734 470u/6.3
R7750 75 (F)
C7735 1000u/6.3
R7751 75 (F)
JA7710
DKN1267-A
MASTER V COMPOSITE
JA7711
DKN1268-A
C CR COMPONENT Cr
C CB COMPONENT Cb
C Y COMPONENT Y
GNDAO

AUDIO & VIDEO SIGNAL ROUTE

(VI) ➡: VIDEO IN SIGNAL
(PV) ➡: PREVIEW VIDEO OUT SIGNAL
(PS-C) ➡: PREVIEW S-VIDEO OUT C SIGNAL
(PS-Y) ➡: PREVIEW S-VIDEO OUT Y SIGNAL
(MAS-C) ➡: MASTER S-VIDEO OUT C SIGNAL
(MAS-Y) ➡: MASTER S-VIDEO OUT Y SIGNAL
(MAV) ➡: MASTER VIDEO OUT SIGNAL
(MACr) ➡: MASTER OUT Cr SIGNAL
(MACb) ➡: MASTER OUT Cb SIGNAL
(MAY) ➡: MASTER OUT Y SIGNAL

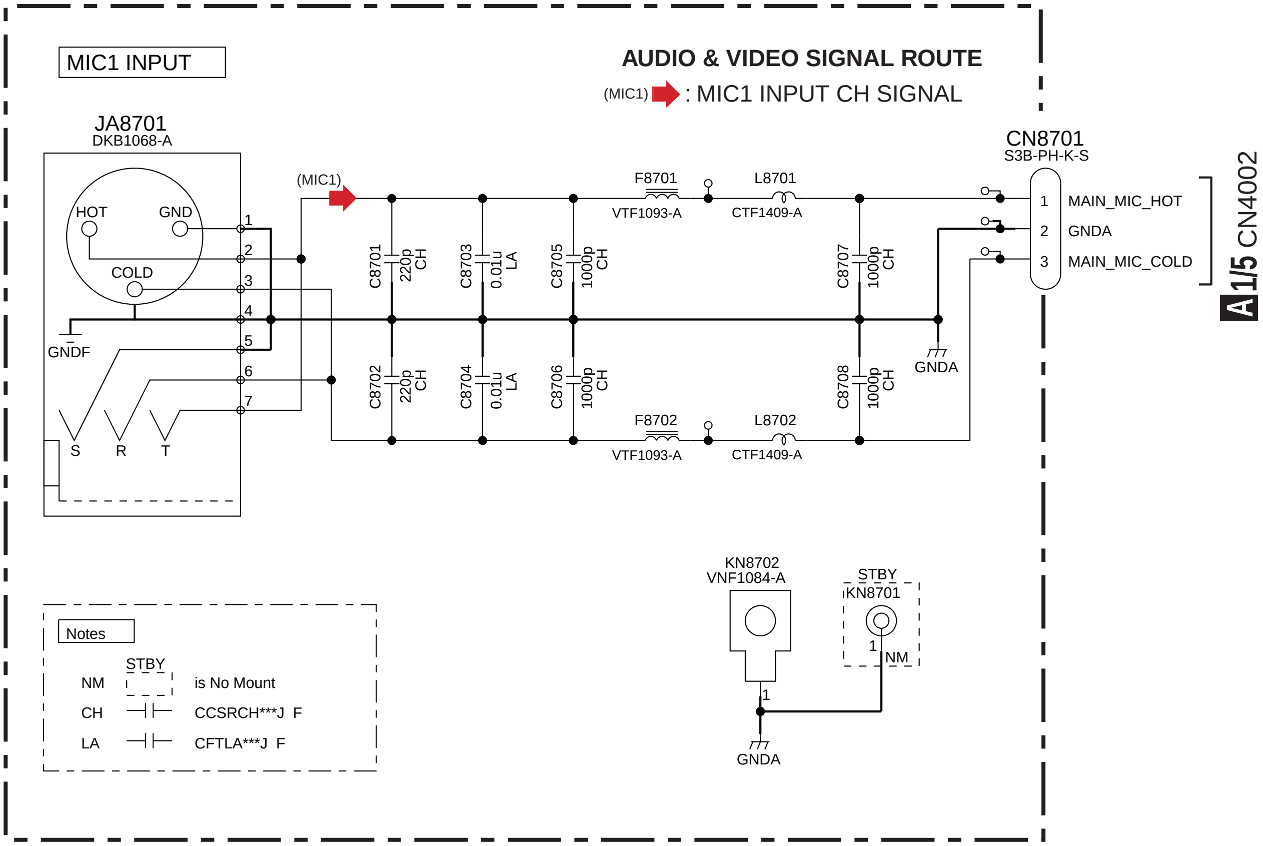

Notes
CEAT***M F
CKSRYB***K F
(F)
RS1/16S****F Ω
RS1/16S***J Ω

10.12 MJCK, VIN3 and VIO2 ASSYS

A

D MJCK ASSY
(DWX2738)

F


MIC1 INPUT
AUDIO & VIDEO SIGNAL ROUTE
(MIC1) : MIC1 INPUT CH SIGNAL
JA8701
DKB1068-A
HOT
GND
COLD
GNDF
S
R
T
1
2
3
4
5
6
7
(MIC1)
F8701
VTF1093-A
L8701
CTF1409-A
F8702
VTF1093-A
L8702
CTF1409-A
C8701 220p CH
C8703 0.01u LA
C8705 1000p CH
C8707 1000p CH
C8702 220p CH
C8704 0.01u LA
C8706 1000p CH
C8708 1000p CH
GNDA
CN8701
S3B-PH-K-S
1 MAIN_MIC_HOT
2 GNDA
3 MAIN_MIC_COLD
A1/5 CN4002
KN8702
VNF1084-A
STBY
KN8701
1
NM
1
GNDA
Notes
NM STBY is No Mount
CH CCSRCH***J F
LA CFTLA***J F

B

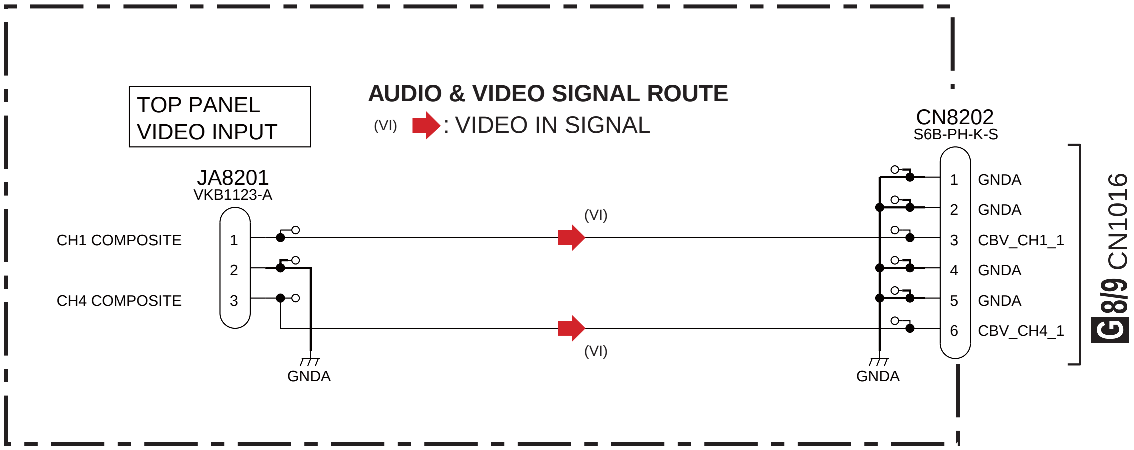
C

C

D

E VIN3 ASSY
(DWX2733)

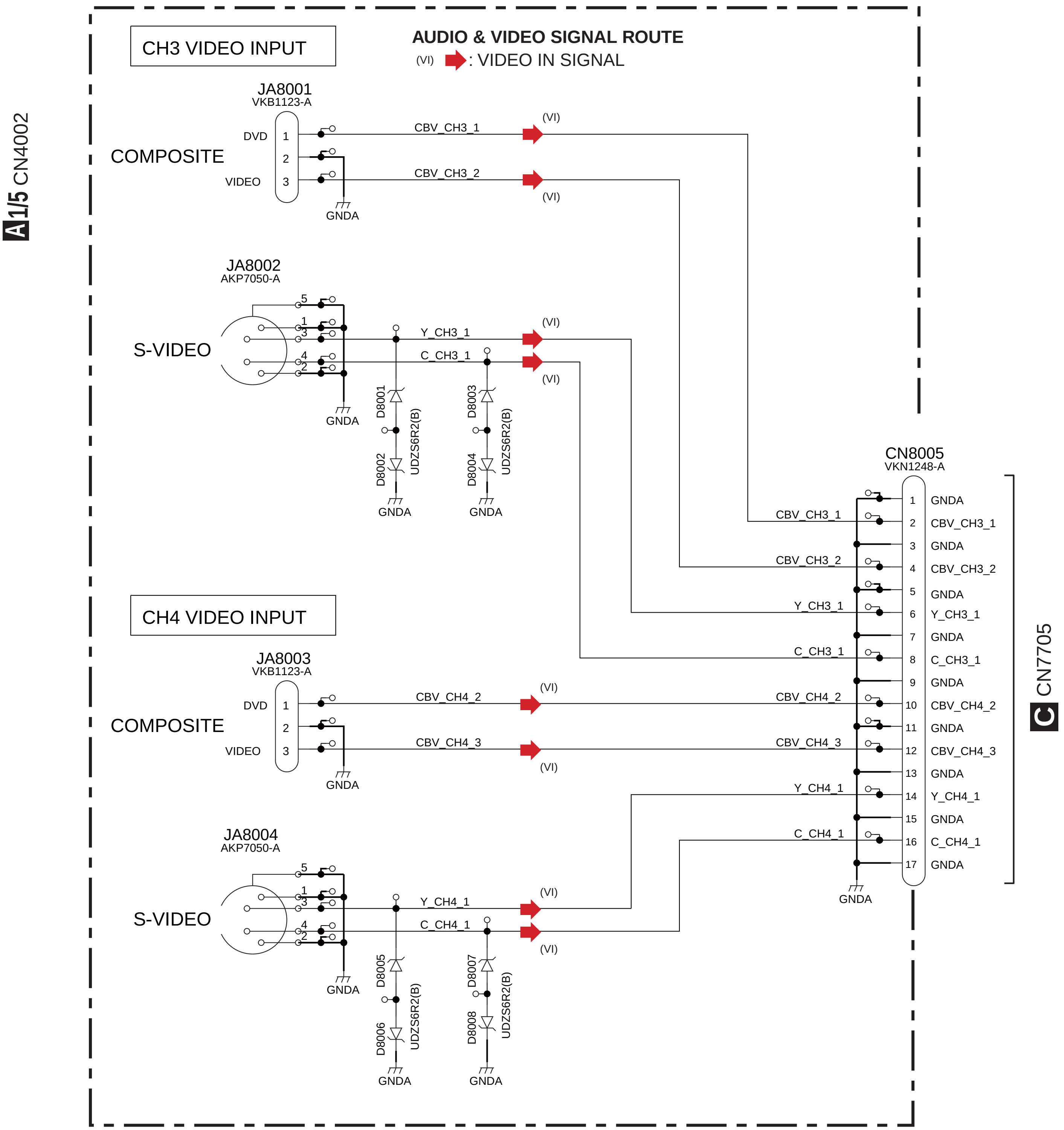
C


TOP PANEL
VIDEO INPUT
AUDIO & VIDEO SIGNAL ROUTE
(VI) : VIDEO IN SIGNAL
JA8201
VKB1123-A
CH1 COMPOSITE
CH4 COMPOSITE
1
2
3
GNDA
(VI)
(VI)
CN8202
S6B-PH-K-S
1 GNDA
2 GNDA
3 CBV_CH1_1
4 GNDA
5 GNDA
6 CBV_CH4_1
GNDA
G8/9 CN1016

E

F

F VIO2 ASSY
(DWX2732)


A 1/5 CN4002
CH3 VIDEO INPUT
AUDIO & VIDEO SIGNAL ROUTE
(VI) : VIDEO IN SIGNAL
JA8001
VKB1123-A
COMPOSITE
DVD
VIDEO
1
2
3
CBV_CH3_1
CBV_CH3_2
(VI)
GNDA
JA8002
AKP7050-A
S-VIDEO
5
1
3
4
2
Y_CH3_1
C_CH3_1
D8001
D8002
D8003
D8004
UDZS6R2(B)
CN8005
VKN1248-A
1 GNDA
2 CBV_CH3_1
3 GNDA
4 CBV_CH3_2
5 GNDA
6 Y_CH3_1
7 GNDA
8 C_CH3_1
9 GNDA
10 CBV_CH4_2
11 GNDA
12 CBV_CH4_3
13 GNDA
14 Y_CH4_1
15 GNDA
16 C_CH4_1
17 GNDA
CH4 VIDEO INPUT
JA8003
VKB1123-A
CBV_CH4_2
CBV_CH4_3
Y_CH4_1
C_CH4_1
JA8004
AKP7050-A
D8005
D8006
D8007
D8008
C CN7705

10.13 MAIN ASSY (1/9)

A

G 1/9 MAIN ASSY
(DWX2715) (1/2)

B

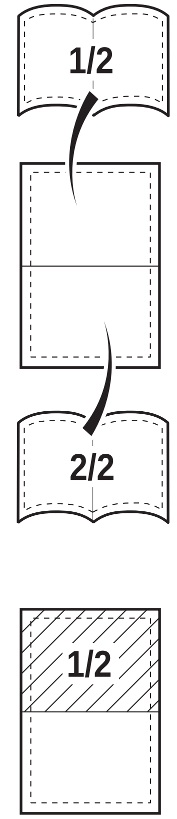
C

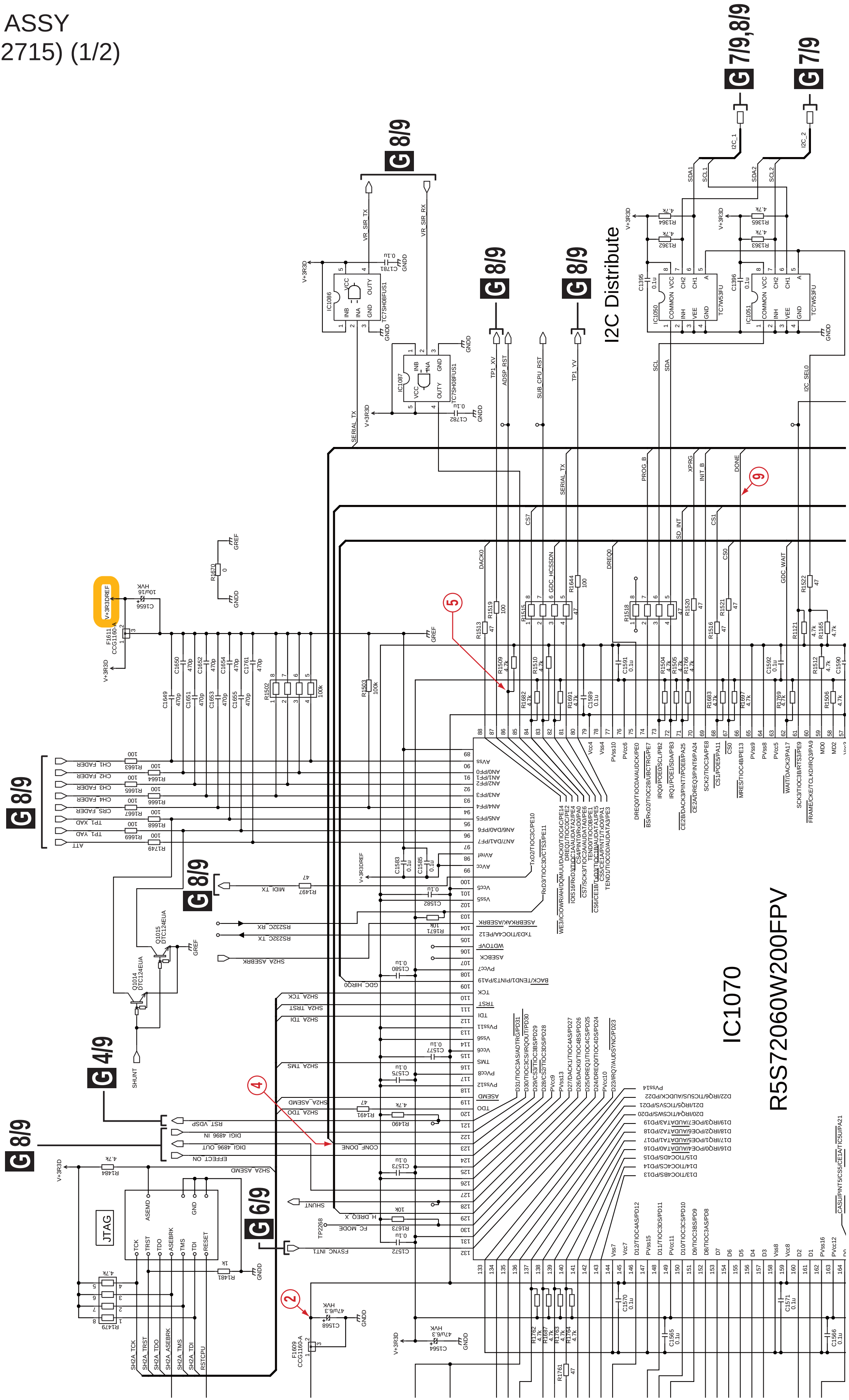
D

E

F

Large size
SCH diagram




G 8/9
G 7/9,8/9
G 7/9
I2C_1
I2C_2
I2C Distribute
IC1086 TC7SH08FU
IC1087 TC7SH08FU
IC1050 TC7W53FU
IC1051 TC7W53FU
VR_SIR_TX
VR_SIR_RX
SERIAL_TX
TP1_XV
ADSP_RST
SUB_CPU_RST
TP1_YV
SCL
SDA
I2C_SEL0
PROG_B
XPRG
INIT_B
DONE
SD_INT
CS7
CS1
CS0
DACK0
DREQ0
GDC_WAIT
G 8/9
CH1 FADER
CH2 FADER
CH3 FADER
CH4 FADER
CRS FADER
TP1 XAD
TP1 YAD
ATT
G 8/9
MIDI_TX
RS232C_RX
RS232C_TX
SH2A_ASEBRK
Q1014 DTC124EUA
Q1015 DTC124EUA
G 4/9
SHUNT
GDC_HIRQ0
SH2A_TCK
SH2A_TRST
SH2A_TDI
SH2A_TMS
SH2A_ASEMD
SH2A_TDO
G 8/9
RST_VDSP
DIGI_4896_IN
DIGI_4896_OUT
EFFECT_ON
CONF_DONE
JTAG
G 6/9
SHUNT
H_DREQ_X
FC_MODE
FSYNC_INT1
TP2268
SH2A_TCK
SH2A_TRST
SH2A_TDO
SH2A_ASEBRK
SH2A_TMS
SH2A_TDI
RSTCPU
F1611 CCG1160-A
F1609 CCG1160-A
V+3R3DREF
V+3R3D
GREF
GNDD
IC1070
R5S72060W200FPV
⑤
④
②
⑨

A

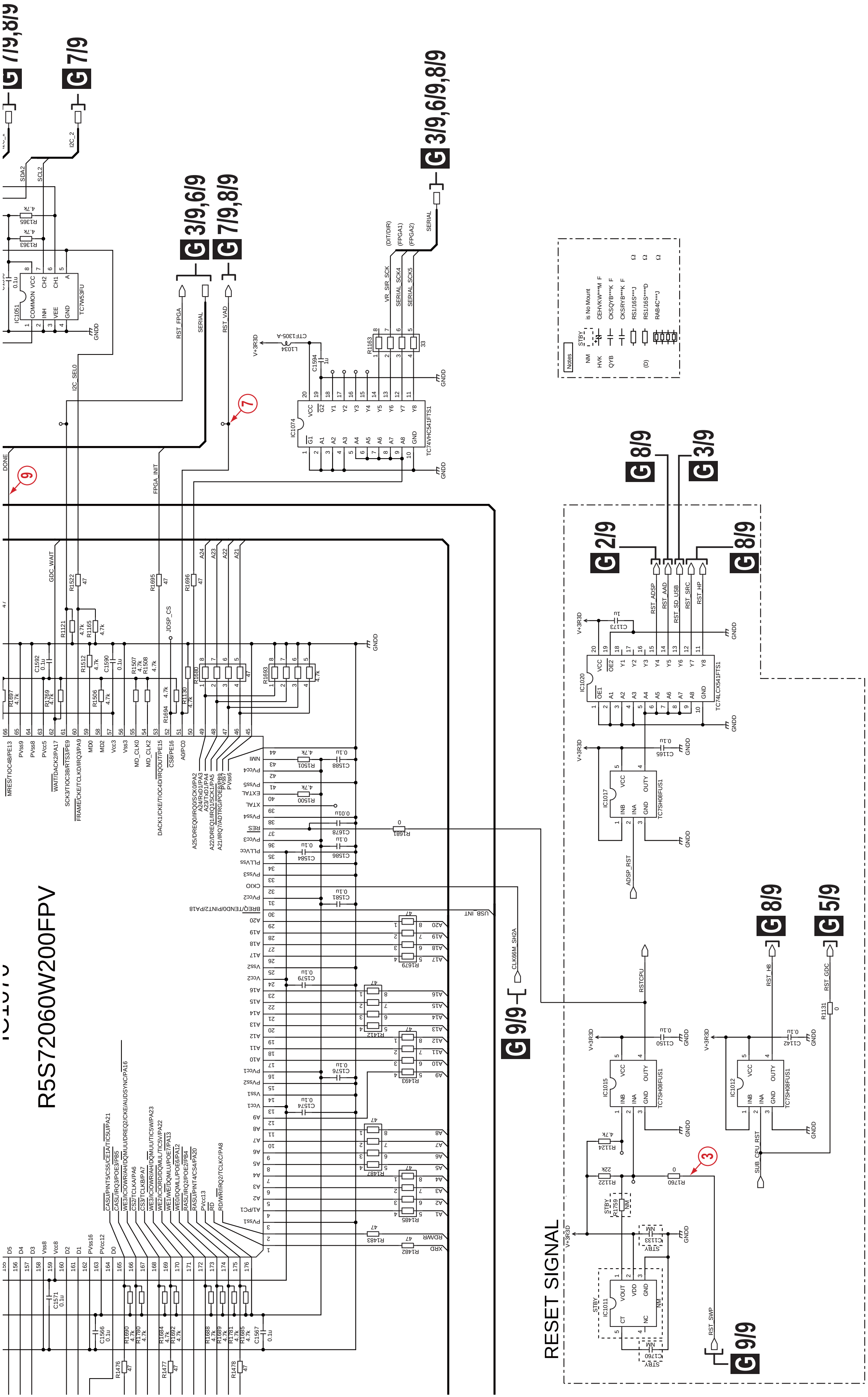
B

C

D

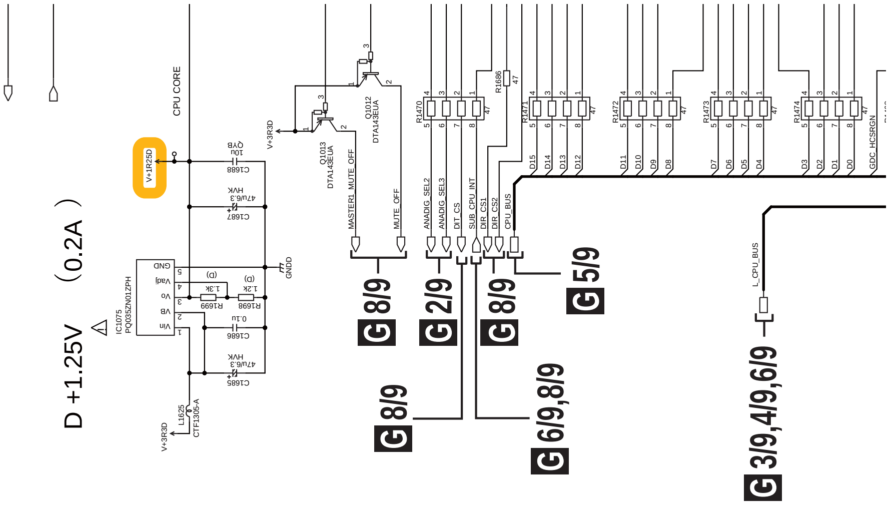
E

F

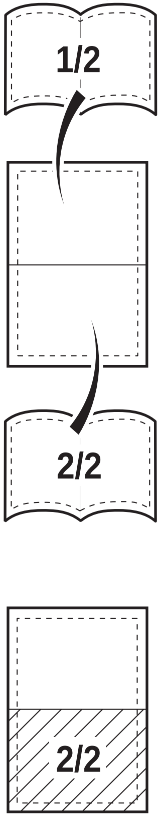

R5S72060W200FPV
IC1070
RESET SIGNAL
IC1074
TC74VHC541FTS1
IC1020
TC74LCX541FTS1
IC1017
TC7SH08FUS1
IC1015
TC7SH08FUS1
IC1012
TC7SH08FUS1
IC1011
IC1051
TC7W53FU
G 7/9,8/9
G 7/9
G 3/9,6/9
G 7/9,8/9
G 3/9,6/9,8/9
G 8/9
G 3/9
G 2/9
G 8/9
G 8/9
G 5/9
G 9/9
G 9/9
SDA2
SCL2
I2C_2
I2C_SEL0
RST_FPGA
SERIAL
RST_VAD
DONE
FPGA_INIT
GDC_WAIT
JDSP_CS
VR_SIR_SCK
SERIAL_SCK4
SERIAL_SCK5
(DIT/DIR)
(FPGA1)
(FPGA2)
CTF1305-A
L1034
V+3R3D
GNDD
RST_ADSP
RST_AAD
RST_SD_USB
RST_SRC
RST_HP
ADSP_RST
RSTCPU
RST_H8
RST_GDC
SUB_CPU_RST
RST_SWP
CLK66M_SH2A
USB_INT
STBY
NM
Notes
NM is No Mount
HVK CEHVKW***M F
QYB CKSQYB***K F
CKSRYB***K F
RS1/16S***J Ω
(D) RS1/16S***D Ω
RAB4C***J

G 1/9

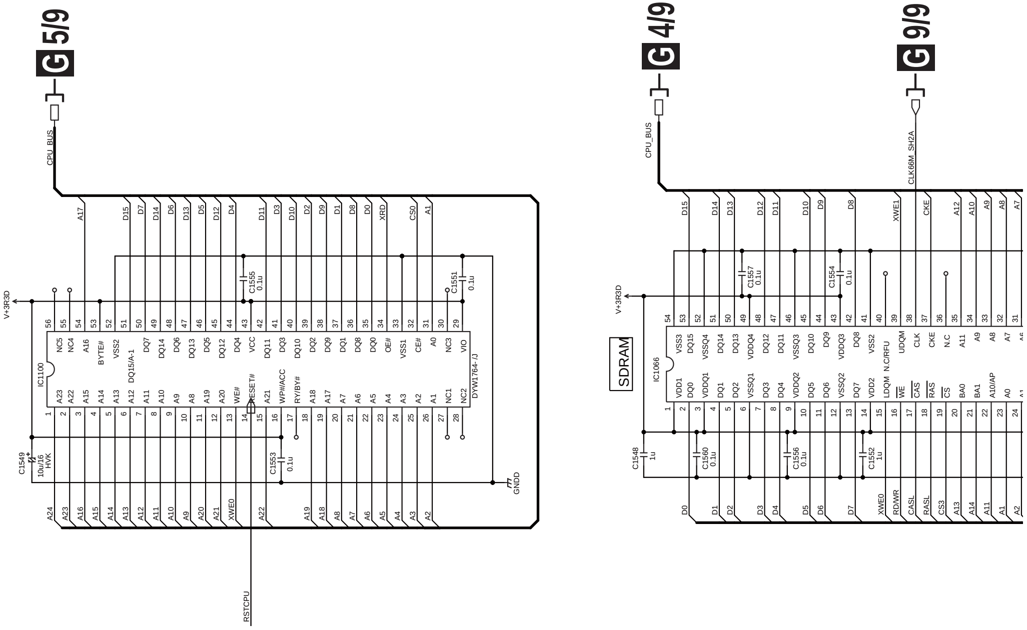
G 1/9 MAIN ASSY (DWX2715) (2/2)


CPU CORE
V+1R25D
D +1.25V (0.2A)
IC1075
PQ035ZN01ZPH
L1625
CTF1305-A
V+3R3D
C1685
47u/6.3
HVK
C1686
0.1u
R1698
1.2k
R1699
1.3k
C1687
47u/6.3
HVK
C1688
10u
GNDD
Q1013
DTA143EUA
Q1012
DTA143EUA
MASTER1_MUTE_OFF
MUTE_OFF
ANADIG_SEL2
ANADIG_SEL3
DIT_CS
SUB_CPU_INT
DIR_CS1
DIR_CS2
CPU_BUS
R1470
R1471
R1472
R1473
R1474
R1686
47
L_CPU_BUS
GDC_HCSRGN
G 8/9
G 2/9
G 8/9
G 5/9
G 8/9
G 6/9,8/9
G 3/9,4/9,6/9

Large size SCH diagram



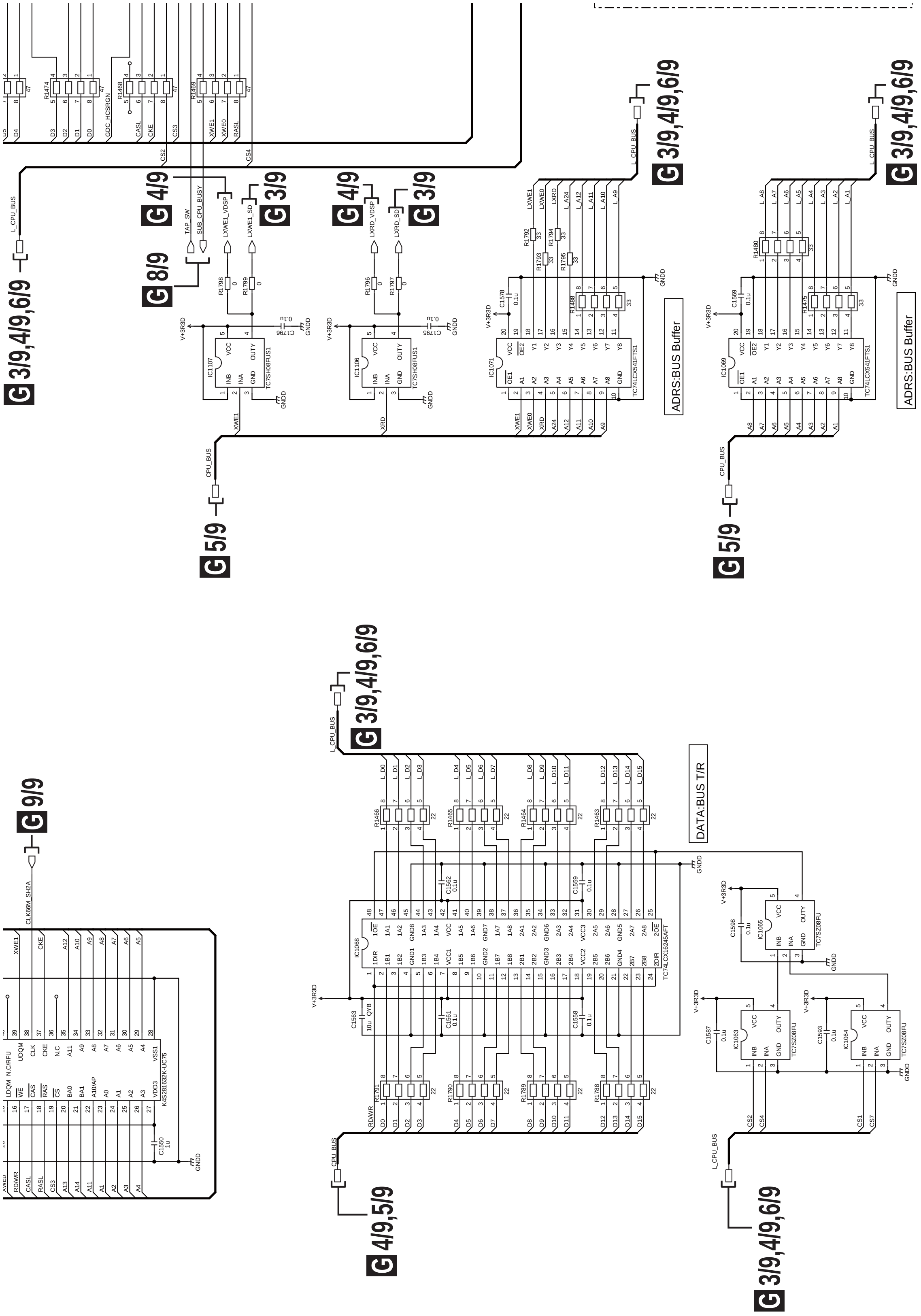
MAIN CPU/RESET


G 5/9
CPU_BUS
IC1100
DYW1764-/J
V+3R3D
C1549
10u/16
HVK
C1553
0.1u
C1555
0.1u
C1551
0.1u
GNDD
RSTCPU
G 4/9,5/9
G 9/9
CPU_BUS
CLK66M_SH2A
SDRAM
IC1066
C1548
1u
C1560
0.1u
C1556
0.1u
C1552
1u
C1557
0.1u
C1554
0.1u

A

B

C


ADRS:BUS Buffer
ADRS:BUS Buffer
DATA:BUS T/R
IC1107
TC7SH08FUS1
IC1106
TC7SH08FUS1
IC1071
TC74LCX541FTS1
IC1069
TC74LCX541FTS1
IC1068
TC74LCX16245AFT
IC1065
TC7SZ08FU
IC1063
TC7SZ08FU
IC1064
TC7SZ08FU
K4S281632K-UC75
CPU_BUS
L_CPU_BUS
V+3R3D
GNDD
TAP_SW
SUB_CPU_BUSY
LXWE1_VDSP
LXWE1_SD
LXRD_VDSP
LXRD_SD
CLK66M_SH2A
G 3/9,4/9,6/9
G 3/9,4/9,6/9
G 3/9,4/9,6/9
G 3/9,4/9,6/9
G 3/9,4/9,6/9
G 8/9
G 4/9
G 3/9
G 4/9
G 3/9
G 5/9
G 5/9
G 9/9
G 4/9,5/9

D

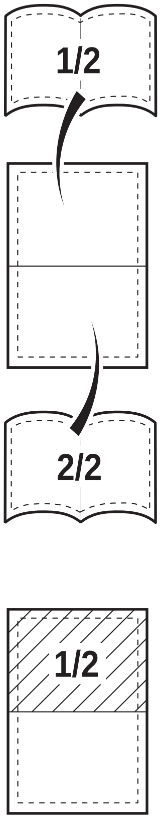
E

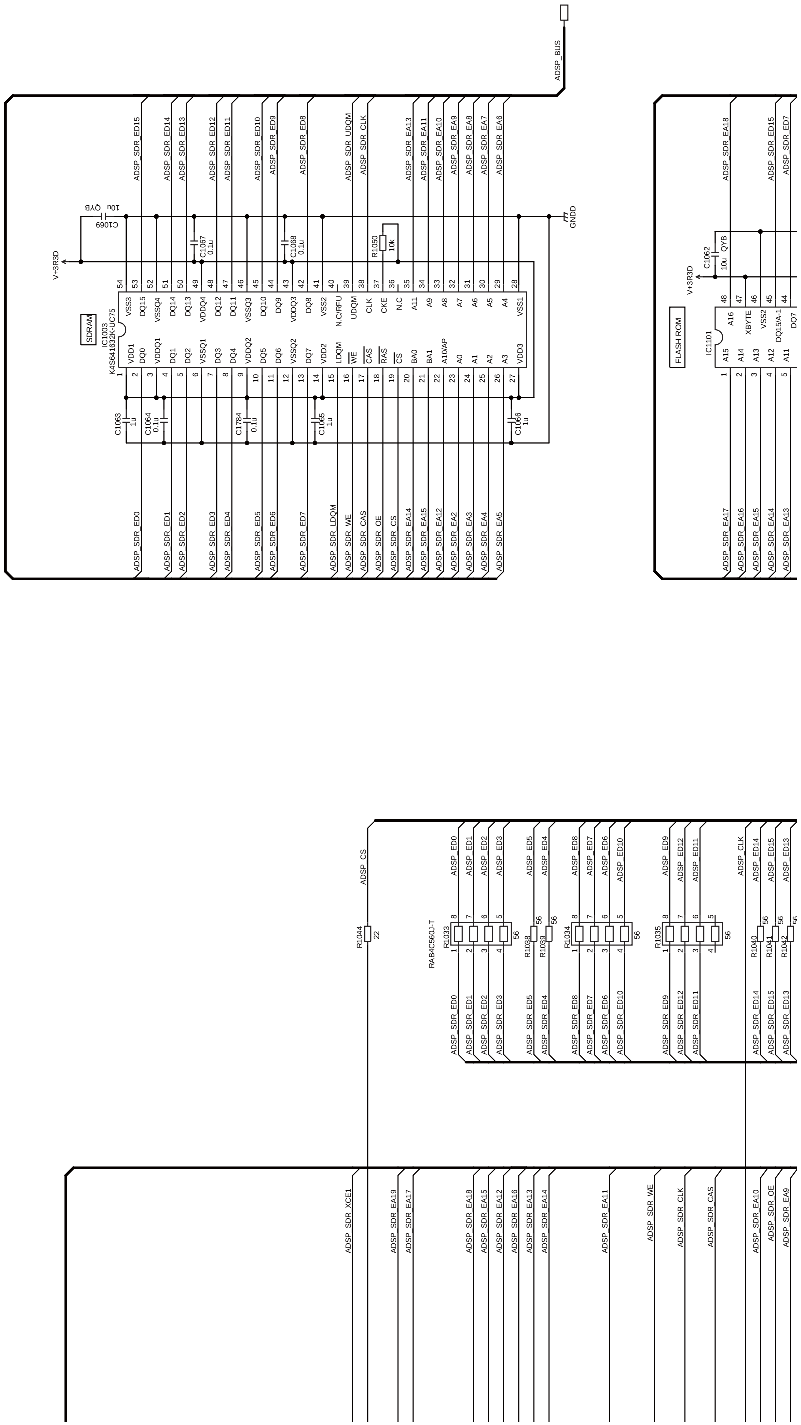
F

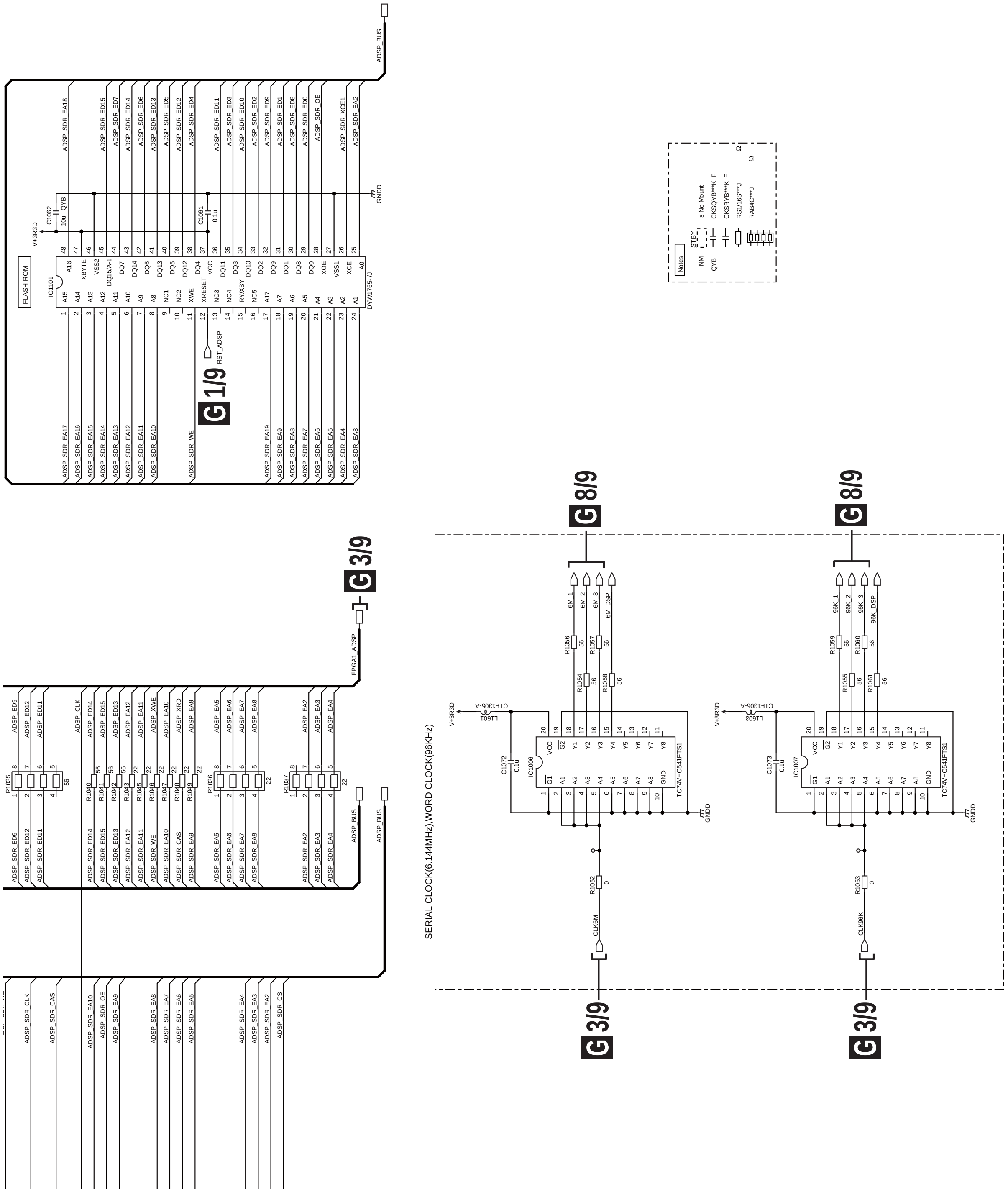
10.14 MAIN ASSY (2/9)

G 2/9 MAIN ASSY
(DWX2715) (1/2)

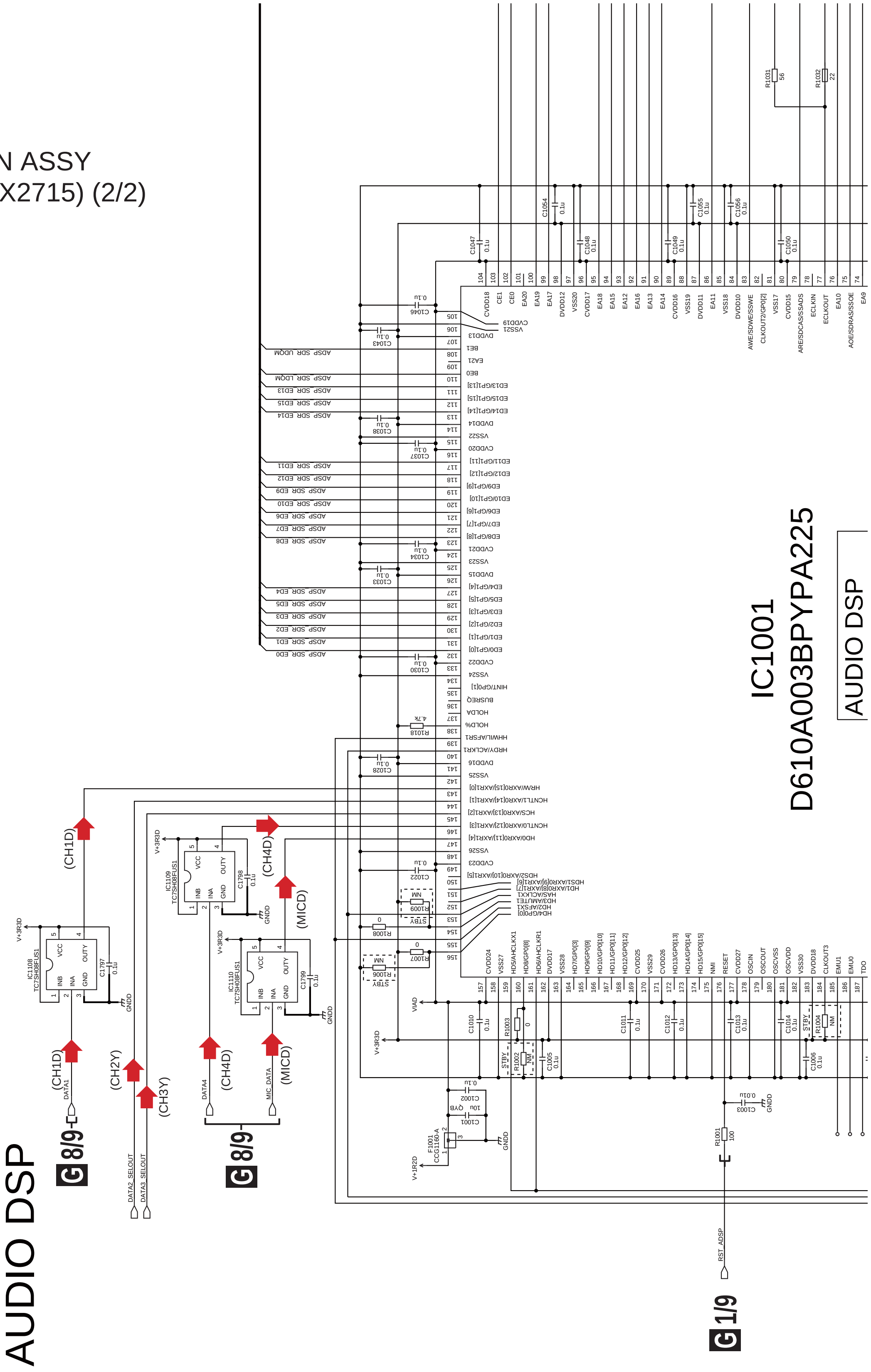
**Large size
SCH diagram**



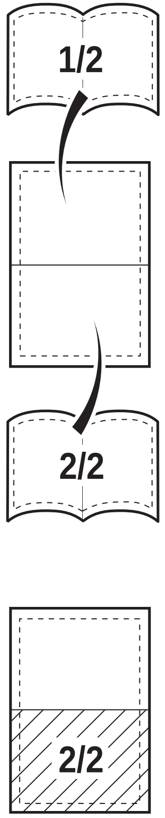

ADSP_BUS
GNDD
V+3R3D
IC1003
K4S641632K-UC75
SDRAM
C1069
10u
QYB
C1067
0.1u
C1068
0.1u
R1050
10k
C1063
1u
C1064
0.1u
C1784
0.1u
C1065
1u
C1066
1u
VSS3
DQ15
VSSQ4
DQ14
DQ13
VDDQ4
DQ12
DQ11
VSSQ3
DQ10
DQ9
VDDQ3
DQ8
VSS2
N.C/RFU
UDQM
CLK
CKE
N.C
A11
A9
A8
A7
A6
A5
A4
VSS1
VDD1
DQ0
VDDQ1
DQ1
DQ2
VSSQ1
DQ3
DQ4
VDDQ2
DQ5
DQ6
VSSQ2
DQ7
VDD2
LDQM
WE
CAS
RAS
CS
BA0
BA1
A10/AP
A0
A1
A2
A3
VDD3
ADSP_SDR_ED15
ADSP_SDR_ED14
ADSP_SDR_ED13
ADSP_SDR_ED12
ADSP_SDR_ED11
ADSP_SDR_ED10
ADSP_SDR_ED9
ADSP_SDR_ED8
ADSP_SDR_UDQM
ADSP_SDR_CLK
ADSP_SDR_EA13
ADSP_SDR_EA11
ADSP_SDR_EA10
ADSP_SDR_EA9
ADSP_SDR_EA8
ADSP_SDR_EA7
ADSP_SDR_EA6
ADSP_SDR_ED0
ADSP_SDR_ED1
ADSP_SDR_ED2
ADSP_SDR_ED3
ADSP_SDR_ED4
ADSP_SDR_ED5
ADSP_SDR_ED6
ADSP_SDR_ED7
ADSP_SDR_LDQM
ADSP_SDR_WE
ADSP_SDR_CAS
ADSP_SDR_OE
ADSP_SDR_CS
ADSP_SDR_EA14
ADSP_SDR_EA15
ADSP_SDR_EA12
ADSP_SDR_EA2
ADSP_SDR_EA3
ADSP_SDR_EA4
ADSP_SDR_EA5
IC1101
FLASH ROM
V+3R3D
C1062
10u
QYB
ADSP_SDR_EA18
ADSP_SDR_ED15
ADSP_SDR_ED7
A16
XBYTE
VSS2
DQ15/A-1
DQ7
A15
A14
A13
A12
A11
ADSP_SDR_EA17
ADSP_SDR_EA16
ADSP_SDR_EA15
ADSP_SDR_EA14
ADSP_SDR_EA13
ADSP_CS
R1044
22
RAB4C560J-T
R1033
R1038
R1039
R1034
R1035
R1040
R1041
R1042
56
ADSP_ED0
ADSP_ED1
ADSP_ED2
ADSP_ED3
ADSP_ED5
ADSP_ED4
ADSP_ED8
ADSP_ED7
ADSP_ED6
ADSP_ED10
ADSP_ED9
ADSP_ED12
ADSP_ED11
ADSP_CLK
ADSP_ED14
ADSP_ED15
ADSP_ED13
ADSP_SDR_ED0
ADSP_SDR_ED1
ADSP_SDR_ED2
ADSP_SDR_ED3
ADSP_SDR_ED5
ADSP_SDR_ED4
ADSP_SDR_ED8
ADSP_SDR_ED7
ADSP_SDR_ED6
ADSP_SDR_ED10
ADSP_SDR_ED9
ADSP_SDR_ED12
ADSP_SDR_ED11
ADSP_SDR_ED14
ADSP_SDR_ED15
ADSP_SDR_ED13
ADSP_SDR_XCE1
ADSP_SDR_EA19
ADSP_SDR_EA17
ADSP_SDR_EA18
ADSP_SDR_EA15
ADSP_SDR_EA12
ADSP_SDR_EA16
ADSP_SDR_EA13
ADSP_SDR_EA14
ADSP_SDR_EA11
ADSP_SDR_WE
ADSP_SDR_CLK
ADSP_SDR_CAS
ADSP_SDR_EA10
ADSP_SDR_OE
ADSP_SDR_EA9

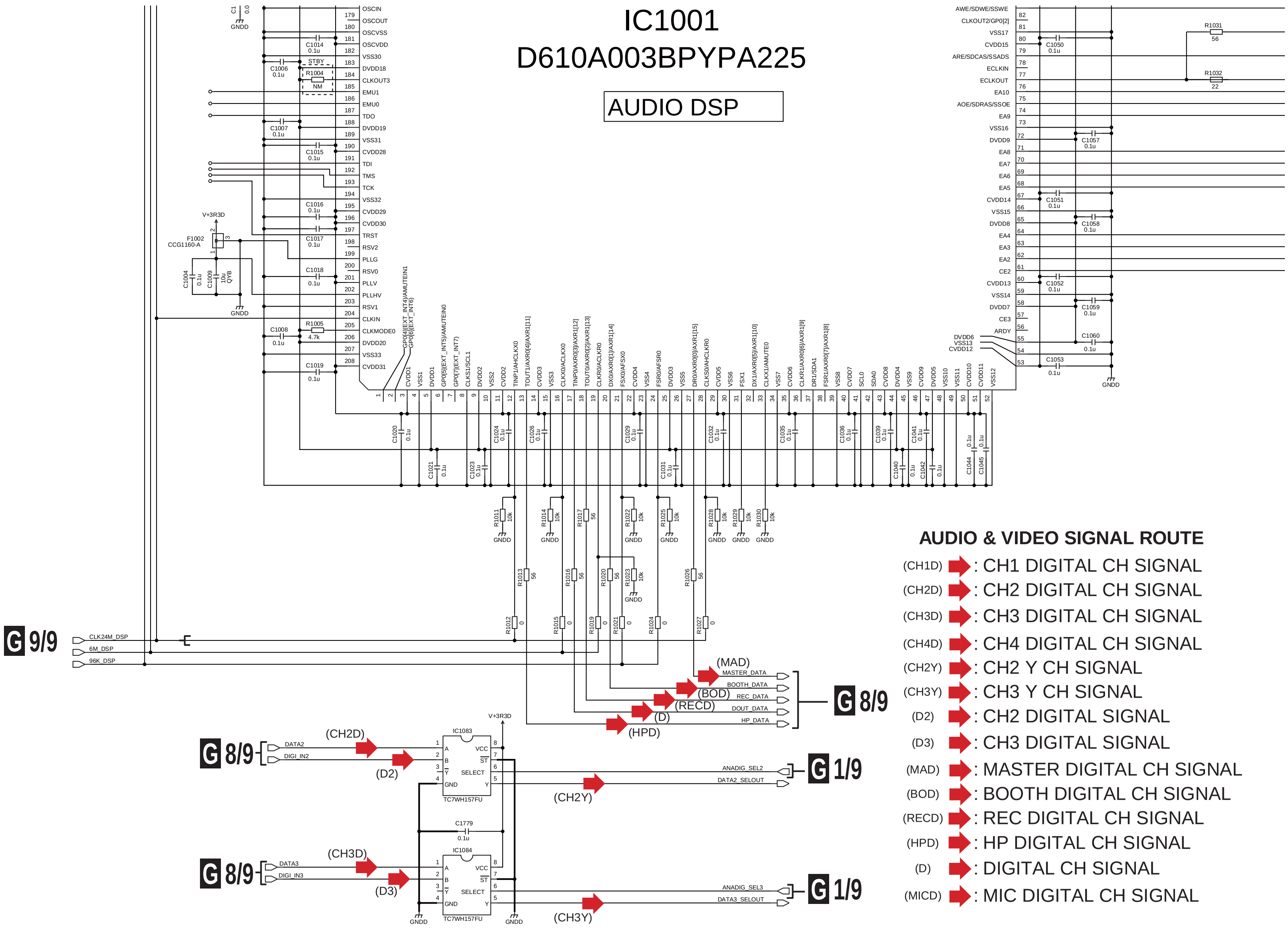

FLASH ROM
IC1101
DYW1765-/J
C1062
10u QYB
C1061
0.1u
V+3R3D
GNDD
ADSP_BUS
RST_ADSP
G 1/9
ADSP_SDR_EA18
ADSP_SDR_XCE1
ADSP_SDR_OE
ADSP_SDR_WE
R1035
R1036
R1037
56
22
FPGA1_ADSP
G 3/9
ADSP_CLK
ADSP_XWE
ADSP_XRD
ADSP_SDR_CLK
ADSP_SDR_CAS
ADSP_SDR_CS
G 8/9
SERIAL CLOCK(6.144MHz),WORD CLOCK(96KHz)
IC1006
IC1007
TC74VHC541FTS1
C1072
C1073
0.1u
L1601
L1603
CTF1305-A
R1052
R1053
0
CLK6M
CLK96K
6M_1
6M_2
6M_3
6M_DSP
96K_1
96K_2
96K_3
96K_DSP
R1054
R1055
R1056
R1057
R1058
R1059
R1060
R1061
Notes
STBY
NM is No Mount
QYB CKSQYB***K F
CKSRYB***K F
RS1/16S***J Ω
RAB4C***J Ω

G 2/9 MAIN ASSY (DWX2715) (2/2)


AUDIO DSP
IC1001
D610A003BPYPA225
AUDIO DSP
IC1108
TC7SH08FUS1
IC1109
TC7SH08FUS1
IC1110
TC7SH08FUS1
(CH1D)
(CH2Y)
(CH3Y)
(CH4D)
(MICD)
DATA1
DATA2_SELOUT
DATA3_SELOUT
DATA4
MIC_DATA
G 8/9
G 8/9
RST_ADSP
G 1/9
V+3R3D
V+1R2D
GNDD
X1001
CCG1160-A

Large size SCH diagram




IC1001
D610A003BPYPA225
AUDIO DSP
G 9/9
CLK24M_DSP
6M_DSP
96K_DSP
G 8/9
MASTER_DATA
BOOTH_DATA
REC_DATA
DOUT_DATA
HP_DATA
(MAD)
(BOD)
(RECD)
(D)
(HPD)
DATA2
DIGI_IN2
(CH2D)
(D2)
IC1083
TC7WH157FU
ANADIG_SEL2
DATA2_SELOUT
(CH2Y)
G 1/9
C1779
0.1u
DATA3
DIGI_IN3
(CH3D)
(D3)
IC1084
TC7WH157FU
ANADIG_SEL3
DATA3_SELOUT
(CH3Y)
V+3R3D
F1002
CCG1160-A
GNDD
R1031
56
R1032
22

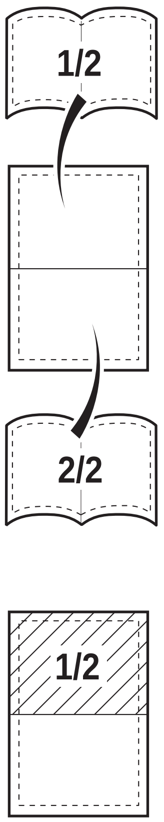
AUDIO & VIDEO SIGNAL ROUTE

(CH1D) : CH1 DIGITAL CH SIGNAL
(CH2D) : CH2 DIGITAL CH SIGNAL
(CH3D) : CH3 DIGITAL CH SIGNAL
(CH4D) : CH4 DIGITAL CH SIGNAL
(CH2Y) : CH2 Y CH SIGNAL
(CH3Y) : CH3 Y CH SIGNAL
(D2) : CH2 DIGITAL SIGNAL
(D3) : CH3 DIGITAL SIGNAL
(MAD) : MASTER DIGITAL CH SIGNAL
(BOD) : BOOTH DIGITAL CH SIGNAL
(RECD) : REC DIGITAL CH SIGNAL
(HPD) : HP DIGITAL CH SIGNAL
(D) : DIGITAL CH SIGNAL
(MICD) : MIC DIGITAL CH SIGNAL

10.15 MAIN ASSY (3/9)

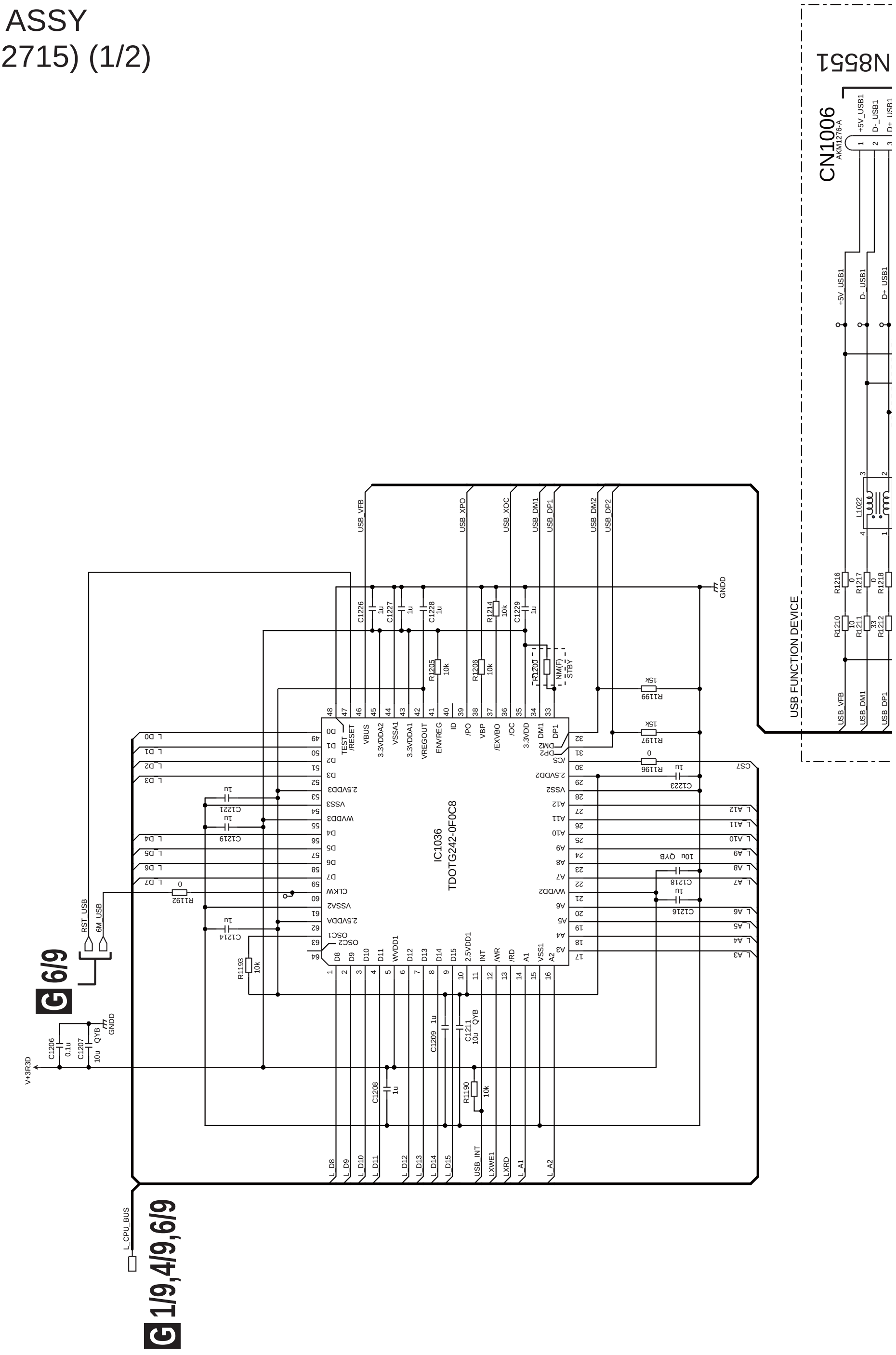
G 3/9 MAIN ASSY
(DWX2715) (1/2)

Large size SCH diagram

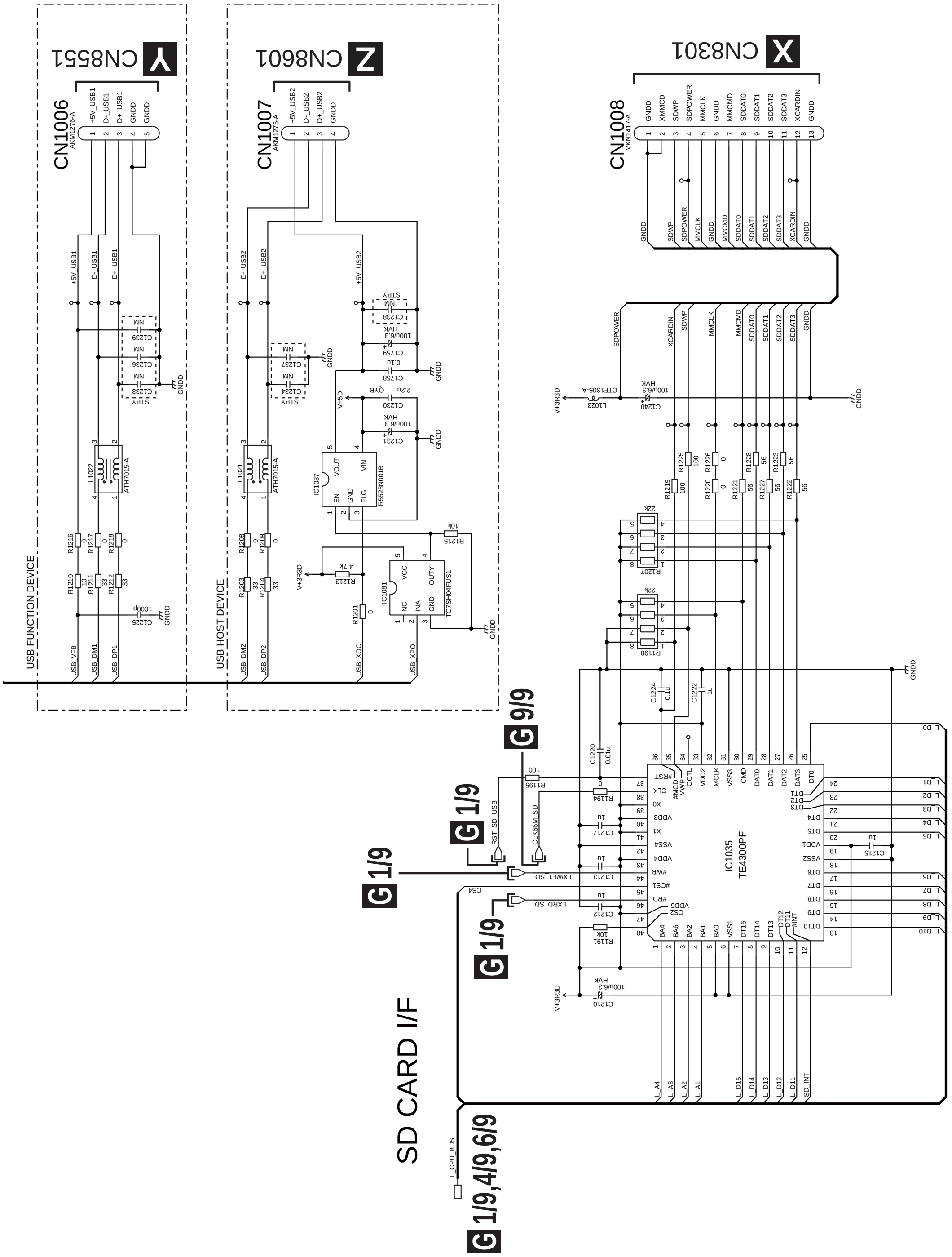


USB/SD

USB HOST/TARGET I/F



CN8551
CN1006
AKM1276-A
+5V_USB1
D-_USB1
D+_USB1
L1022
R1216
R1217
R1218
R1210
R1211
R1212
USB FUNCTION DEVICE
USB_VFB
USB_DM1
USB_DP1
USB_XPO
USB_XOC
USB_DM2
USB_DP2
GNDD
C1226
C1227
C1228
R1214
C1229
R1205
R1206
R1200
NM(F)
STBY
R1199
R1197
R1196
C1223
CS7
IC1036
TDOTG242-0F0C8
C1221
C1219
C1214
C1218
C1216
R1192
R1193
C1209
C1211
C1208
R1190
C1206
C1207
RST_USB
6M_USB
V+3R3D
G 6/9
L_CPU_BUS
G 1/9,4/9,6/9

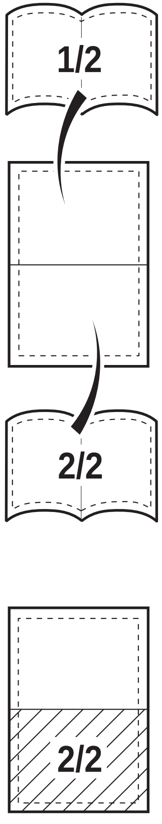


A
B
C
D
E
F
CN1006
AKM1276-A
+5V_USB1
D-_USB1
D+_USB1
GNDD
Y CN8551
CN1007
AKM1275-A
+5V_USB2
D-_USB2
D+_USB2
Z CN8601
CN1008
VKN1417-A
GNDD
XMMCD
SDWP
SDPOWER
MMCLK
MMCMD
SDDAT0
SDDAT1
SDDAT2
SDDAT3
XCARDIN
X CN8301
USB FUNCTION DEVICE
USB HOST DEVICE
USB_VFB
USB_DM1
USB_DP1
USB_DM2
USB_DP2
USB_XOC
USB_XPO
L1022
ATH7015-A
L1021
ATH7015-A
IC1037
R5523N001B
IC1081
TC7SH04FUS1
V+5D
V+3R3D
STBY
NM
C1225 1000p
R1195 100
R1194 0
R1191 10K
R1207 22K
R1198 22K
C1224 0.1u
C1222 1u
C1220 0.01u
C1240 100u/6.3 HVK
C1210 100u/6.3 HVK
L1023 CTF1305-A
IC1035
TE4300PF
G 9/9
G 1/9
RST_SD_USB
CLK66M_SD
LXWE1_SD
LXRD_SD
CS4
L_A4
L_A3
L_A2
L_A1
L_D15
L_D14
L_D13
L_D12
L_D11
SD_INT
L_CPU_BUS
G 1/9,4/9,6/9

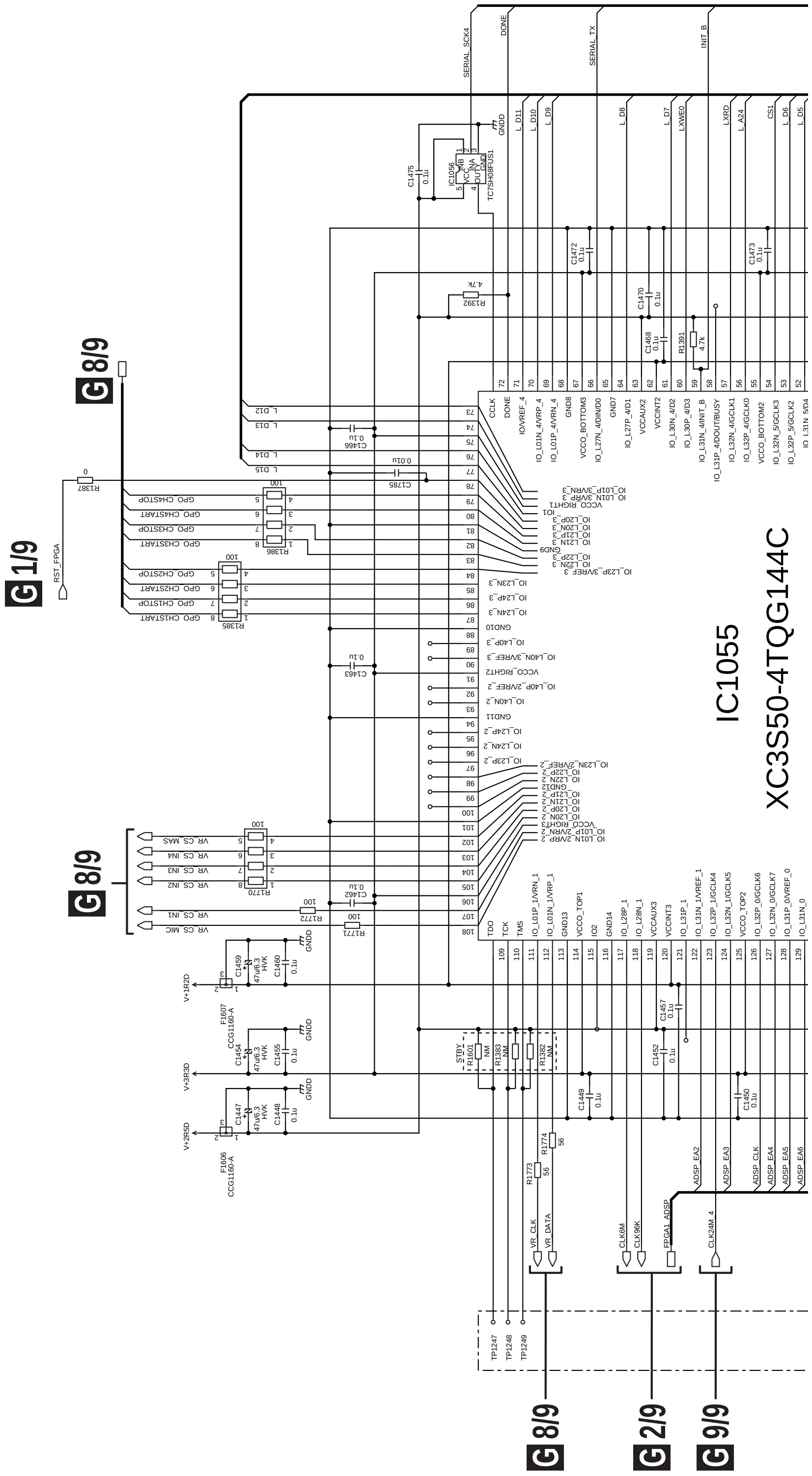
SD CARD I/F

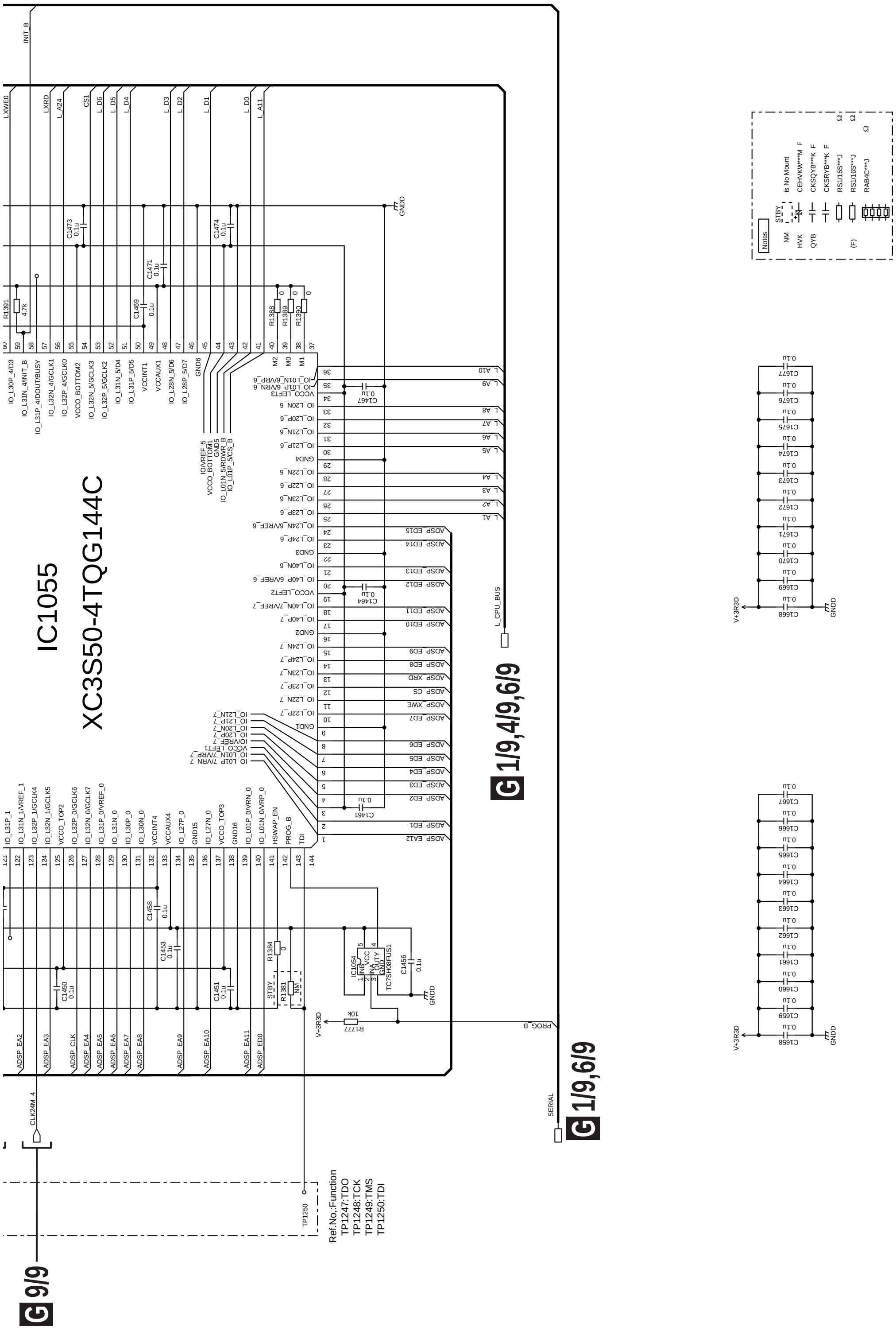
G 3/9 MAIN ASSY (DWX2715) (2/2)

Large size SCH diagram



FPGA1


IC1055
XC3S50-4TQG144C
G 8/9
G 1/9
G 8/9
G 8/9
G 2/9
G 9/9
SERIAL_SCK4
DONE
SERIAL_TX
INIT_B
IC1056
TC7SH08FUS1
RST_FPGA
R1387
R1386
R1385
R1770
R1771
R1772
R1392
R1391
GPO_CH4STOP
GPO_CH4START
GPO_CH3STOP
GPO_CH3START
GPO_CH2STOP
GPO_CH2START
GPO_CH1STOP
GPO_CH1START
VR_CS_MAS
VR_CS_IN4
VR_CS_IN3
VR_CS_IN2
VR_CS_IN1
VR_CS_MIC
V+1R2D
V+3R3D
V+2R5D
F1607
F1606
CCG1160-A
GNDD
STBY
VR_CLK
VR_DATA
CLK6M
CLK96K
FPGA1_ADSP
CLK24M_4
ADSP_EA2
ADSP_EA3
ADSP_CLK
ADSP_EA4
ADSP_EA5
ADSP_EA6
TP1247
TP1248
TP1249
R1773
R1774
R1601
R1383
R1382


IC1055
XC3S50-4TQG144C
G 1/9,4/9,6/9
L_CPU_BUS
G 1/9,6/9
SERIAL
PROG_B
G 9/9
CLK24M_4
IC1054
TC7SH08FUS1
R1777 10k
V+3R3D
GNDD
TP1250
Ref.No.:Function
TP1247:TDO
TP1248:TCK
TP1249:TMS
TP1250:TDI
INIT_B
Notes
NM is No Mount
HVK CEHVKW***M F
QYB CKSQYB***K F
CKSRYB***K F
(F) RS1/16S***J
RS1/16S***J
RAB4C***J
STBY
C1658 C1659 C1660 C1661 C1662 C1663 C1664 C1665 C1666 C1667 0.1u
C1668 C1669 C1670 C1671 C1672 C1673 C1674 C1675 C1676 C1677 0.1u

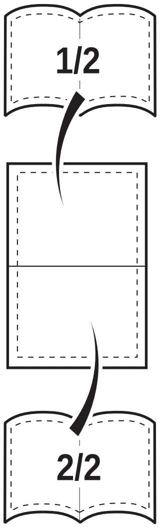
A
B
C
D
E
F

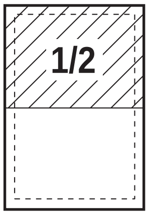
G 3/9

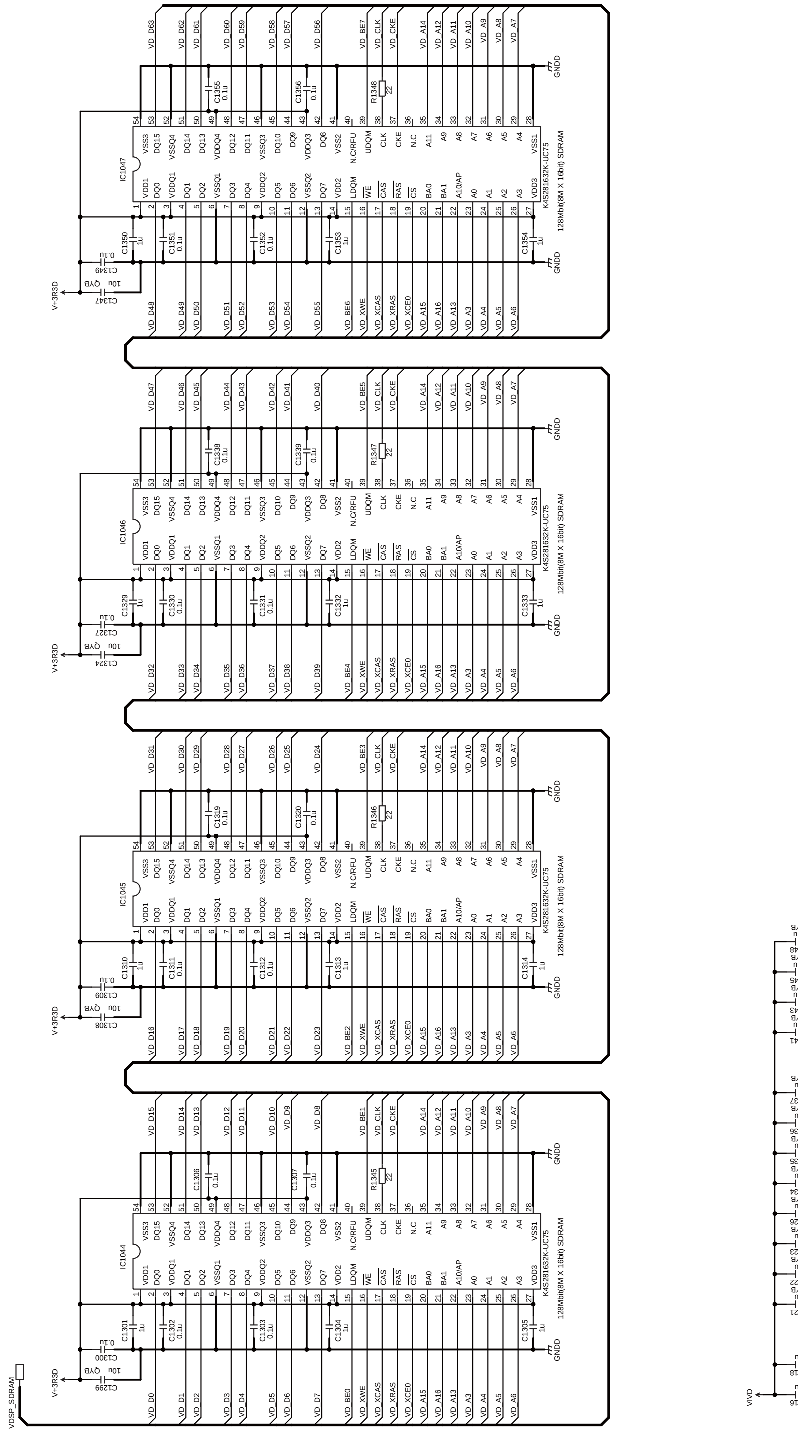
10.16 MAIN ASSY (4/9)

G 4/9 MAIN ASSY
(DWX2715) (1/2)

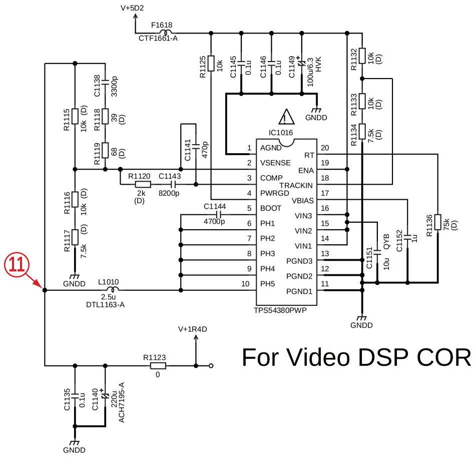
**Large size
SCH diagram**



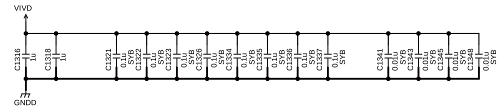


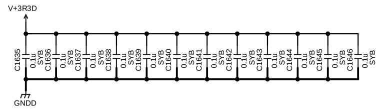

IC1047
IC1046
IC1045
IC1044
K4S281632K-UC75
128Mbit(8M X 16bit) SDRAM
VDD1
DQ0
VDDQ1
DQ1
DQ2
VSSQ1
DQ3
DQ4
VDDQ2
DQ5
DQ6
VSSQ2
DQ7
VDD2
LDQM
WE
CAS
RAS
CS
BA0
BA1
A10/AP
A0
A1
A2
A3
VDD3
VSS3
DQ15
VSSQ4
DQ14
DQ13
VDDQ4
DQ12
DQ11
VSSQ3
DQ10
DQ9
VDDQ3
DQ8
VSS2
N.C/RFU
UDQM
CLK
CKE
N.C
A11
A9
A8
A7
A6
A5
A4
VSS1
GNDD
V+3R3D
VDSP_SDRAM
VIVD
C1347
C1349
C1350
C1351
C1352
C1353
C1354
C1355
C1356
R1348
C1324
C1327
C1329
C1330
C1331
C1332
C1333
C1338
C1339
R1347
C1308
C1309
C1310
C1311
C1312
C1313
C1314
C1319
C1320
R1346
C1299
C1300
C1301
C1302
C1303
C1304
C1305
C1306
C1307
R1345
10u
1u
0.1u
22
VD_D63
VD_D62
VD_D61
VD_D60
VD_D59
VD_D58
VD_D57
VD_D56
VD_D48
VD_D49
VD_D50
VD_D51
VD_D52
VD_D53
VD_D54
VD_D55
VD_D47
VD_D46
VD_D45
VD_D44
VD_D43
VD_D42
VD_D41
VD_D40
VD_D32
VD_D33
VD_D34
VD_D35
VD_D36
VD_D37
VD_D38
VD_D39
VD_D31
VD_D30
VD_D29
VD_D28
VD_D27
VD_D26
VD_D25
VD_D24
VD_D16
VD_D17
VD_D18
VD_D19
VD_D20
VD_D21
VD_D22
VD_D23
VD_D15
VD_D14
VD_D13
VD_D12
VD_D11
VD_D10
VD_D9
VD_D8
VD_D0
VD_D1
VD_D2
VD_D3
VD_D4
VD_D5
VD_D6
VD_D7
VD_BE7
VD_BE6
VD_BE5
VD_BE4
VD_BE3
VD_BE2
VD_BE1
VD_BE0
VD_CLK
VD_CKE
VD_XWE
VD_XCAS
VD_XRAS
VD_XCE0
VD_A14
VD_A12
VD_A11
VD_A10
VD_A9
VD_A8
VD_A7
VD_A15
VD_A16
VD_A13
VD_A3
VD_A4
VD_A5
VD_A6

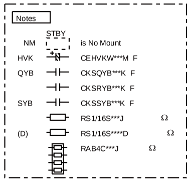
D +1.4V (0.85A)


V+5D2
F1618
CTF1661-A
R1125
10k
C1145
0.1u
C1146
0.1u
C1149
100u/6.3
HVK
GNDD
R1132
10k
(D)
R1133
10k
(D)
R1134
7.5k
(D)
C1138
3300p
R1115
10k (D)
R1118
39
(D)
R1119
68
(D)
C1141
470p
IC1016
1 AGND
2 VSENSE
3 COMP
4 PWRGD
5 BOOT
6 PH1
7 PH2
8 PH3
9 PH4
10 PH5
20 RT
19 ENA
18 TRACKIN
17 VBIAS
16 VIN3
15 VIN2
14 VIN1
13 PGND3
12 PGND2
11 PGND1
TPS54380PWP
R1120
2k
(D)
C1143
8200p
C1144
4700p
R1116
10k (D)
R1117
7.5k (D)
GNDD
⑪
L1010
2.5u
DTL1163-A
C1151
10u
QYB
C1152
1u
R1136
75k
(D)
GNDD
V+1R4D
R1123
0
C1135
0.1u
C1140
220u
ACH7195-A
GNDD

For Video DSP CORE


VIVD
C1316
1u
C1318
1u
C1321
0.1u
SYB
C1322
0.1u
SYB
C1323
0.1u
SYB
C1326
0.1u
SYB
C1334
0.1u
SYB
C1335
0.1u
SYB
C1336
0.1u
SYB
C1337
0.1u
SYB
C1341
0.01u
SYB
C1343
0.01u
SYB
C1345
0.01u
SYB
C1348
0.01u
SYB
GNDD

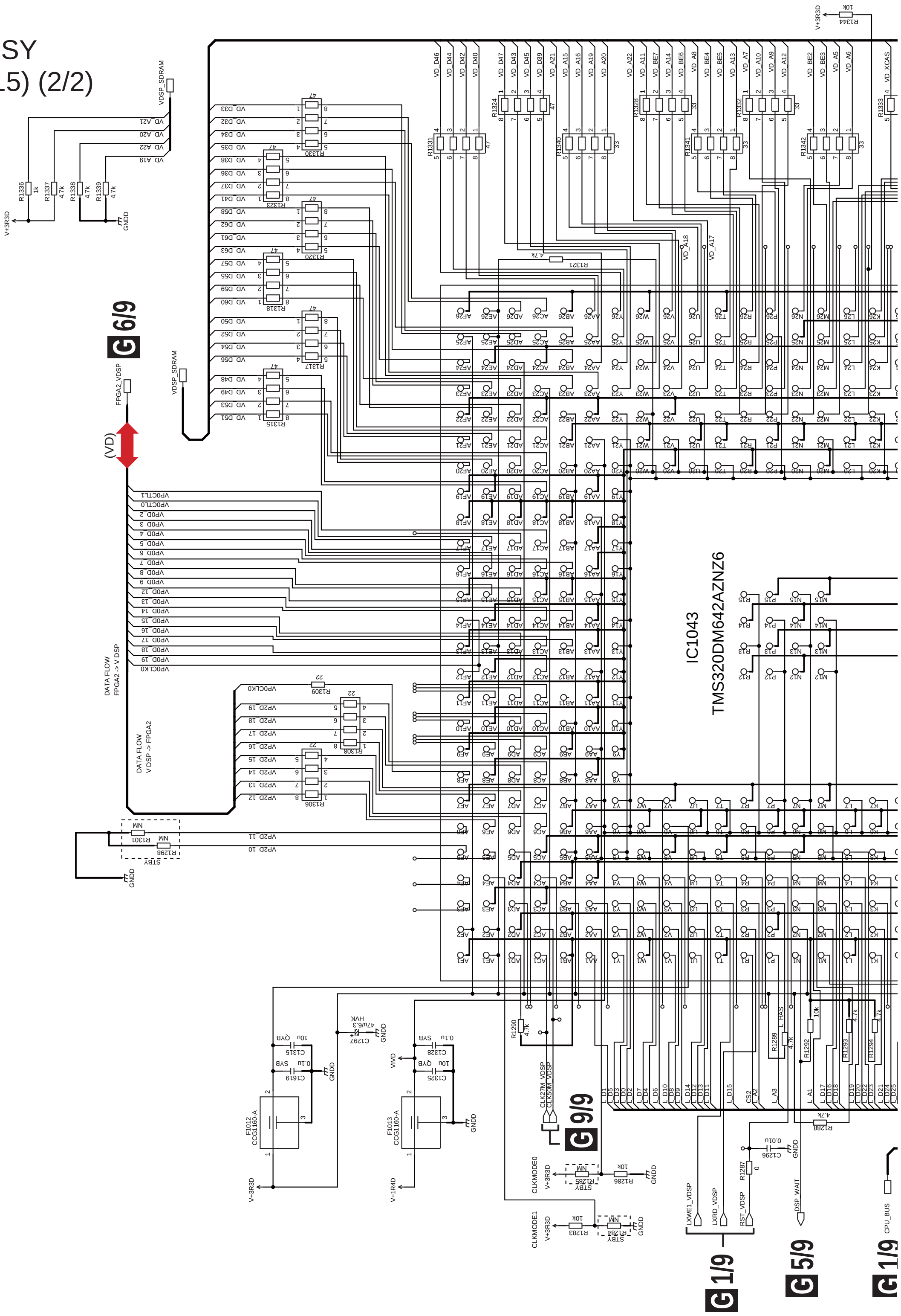

V+3R3D
C1635
0.1u
SYB
C1636
0.1u
SYB
C1637
0.1u
SYB
C1638
0.1u
SYB
C1639
0.1u
SYB
C1640
0.1u
SYB
C1641
0.1u
SYB
C1642
0.1u
SYB
C1643
0.1u
SYB
C1644
0.1u
SYB
C1645
0.1u
SYB
C1646
0.1u
SYB
GNDD


Notes
STBY
NM
is No Mount
HVK
CEHVKW***M F
QYB
CKSQYB***K F
CKSRYB***K F
SYB
CKSSYB***K F
RS1/16S***J Ω
(D)
RS1/16S****D Ω
RAB4C***J Ω

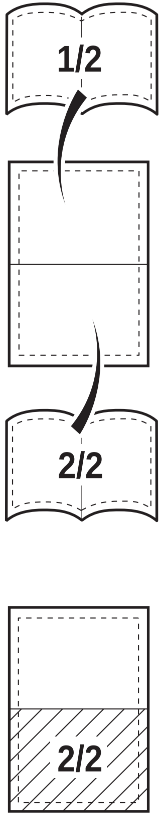
AUDIO & VIDEO SIGNAL ROUTE

(VD) ➡ : VIDEO DATA SIGNAL BUS

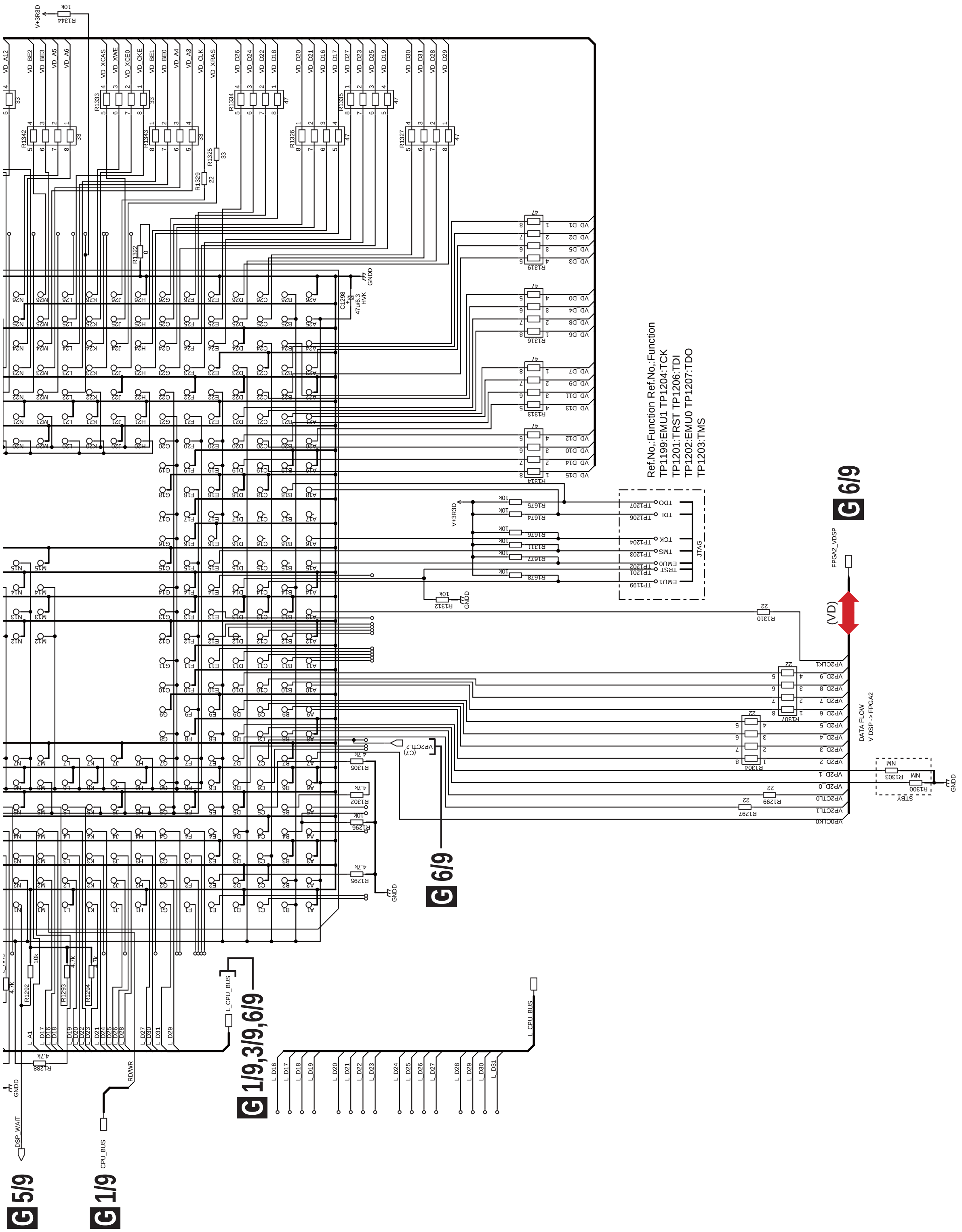
G 4/9 MAIN ASSY (DWX2715) (2/2)


VDSP_SDRAM
VD A21
VD A20
VD A22
VD A19
R1336 1k
R1337 4.7k
R1338 4.7k
R1339 4.7k
V+3R3D
GNDD
G 6/9
FPGA2_VDSP
(VD)
DATA FLOW FPGA2 -> V DSP
DATA FLOW V DSP -> FPGA2
R1301 NM
R1298 NM
STBY
IC1043
TMS320DM642AZNZ6
F1012 CCG1160-A
F1013 CCG1160-A
C1315 10u
C1619 0.1u
C1297 47u/6.3
C1328 0.1u
C1325 10u
V+3R3D
V+1R4D
VIVD
R1290 4.7k
CLK27M_VDSP
CLK50M_VDSP
G 9/9
CLKMODE0
CLKMODE1
R1285 NM STBY
R1286 10K
R1283 10K
R1284 NM STBY
LXWE1_VDSP
LXRD_VDSP
RST_VDSP
DSP_WAIT
CPU_BUS
R1287 0
C1296 0.1u
R1288 4.7K
R1344 10K
G 1/9
G 5/9
G 1/9

Large size SCH diagram



VIDEO DSP


Ref.No.:Function Ref.No.:Function
TP1199:EMU1 TP1204:TCK
TP1201:TRST TP1206:TDI
TP1202:EMU0 TP1207:TDO
TP1203:TMS
JTAG
TDO TP1207
TDI TP1206
TCK TP1204
TMS TP1203
EMU0 TP1202
TRST TP1201
EMU1 TP1199
V+3R3D
R1675
R1674
R1676
R1311
R1677
R1678
R1312
10K
GNDD
FPGA2_VDSP
(VD)
G 6/9
VP2CLK1
VP2D 9
VP2D 8
VP2D 7
VP2D 6
VP2D 5
VP2D 4
VP2D 3
VP2D 2
VP2D 1
VP2D 0
VP2CTL0
VP2CTL1
VP0CLK0
DATA FLOW
V DSP -> FPGA2
R1310
R1307
R1304
R1299
R1297
R1303
R1300
NM
STBY
22
VP2CTL2 (C7)
R1305
R1302
R1296
R1295
4.7k
10k
C1298
47u/6.3
HVK
R1319
R1316
R1313
R1314
47
VD D1
VD D2
VD D5
VD D3
VD D0
VD D4
VD D8
VD D6
VD D7
VD D9
VD D11
VD D13
VD D12
VD D10
VD D14
VD D15
R1344
V+3R3D
R1342
R1333
R1343
R1325
R1329
R1322
R1334
R1326
R1335
R1327
33
VD A12
VD BE2
VD BE3
VD A5
VD A6
VD XCAS
VD XWE
VD XCE0
VD CKE
VD BE1
VD BE0
VD A4
VD A3
VD CLK
VD XRAS
VD D26
VD D24
VD D22
VD D18
VD D20
VD D21
VD D16
VD D17
VD D27
VD D23
VD D25
VD D19
VD D30
VD D31
VD D28
VD D29
R1292
R1293
R1294
R1288
L_A1
L_D17
L_D16
L_D18
L_D19
L_D22
L_D20
L_D23
L_D21
L_D24
L_D25
L_D26
L_D28
L_D27
L_D30
L_D31
L_D29
L_CPU_BUS
G 1/9,3/9,6/9
L_D16
L_D17
L_D18
L_D19
L_D20
L_D21
L_D22
L_D23
L_D24
L_D25
L_D26
L_D27
L_D28
L_D29
L_D30
L_D31
CPU_BUS
RD/WR
DSP_WAIT
GNDD
G 5/9
G 1/9
G 6/9

10.17 MAIN ASSY (5/9)

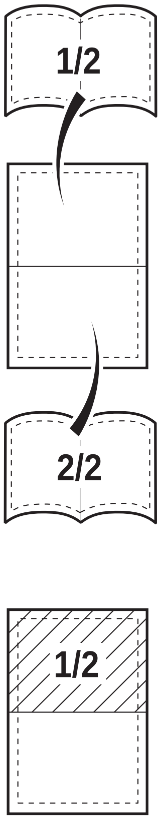
A

G 5/9 MAIN ASSY
(DWX2715) (1/2)

B

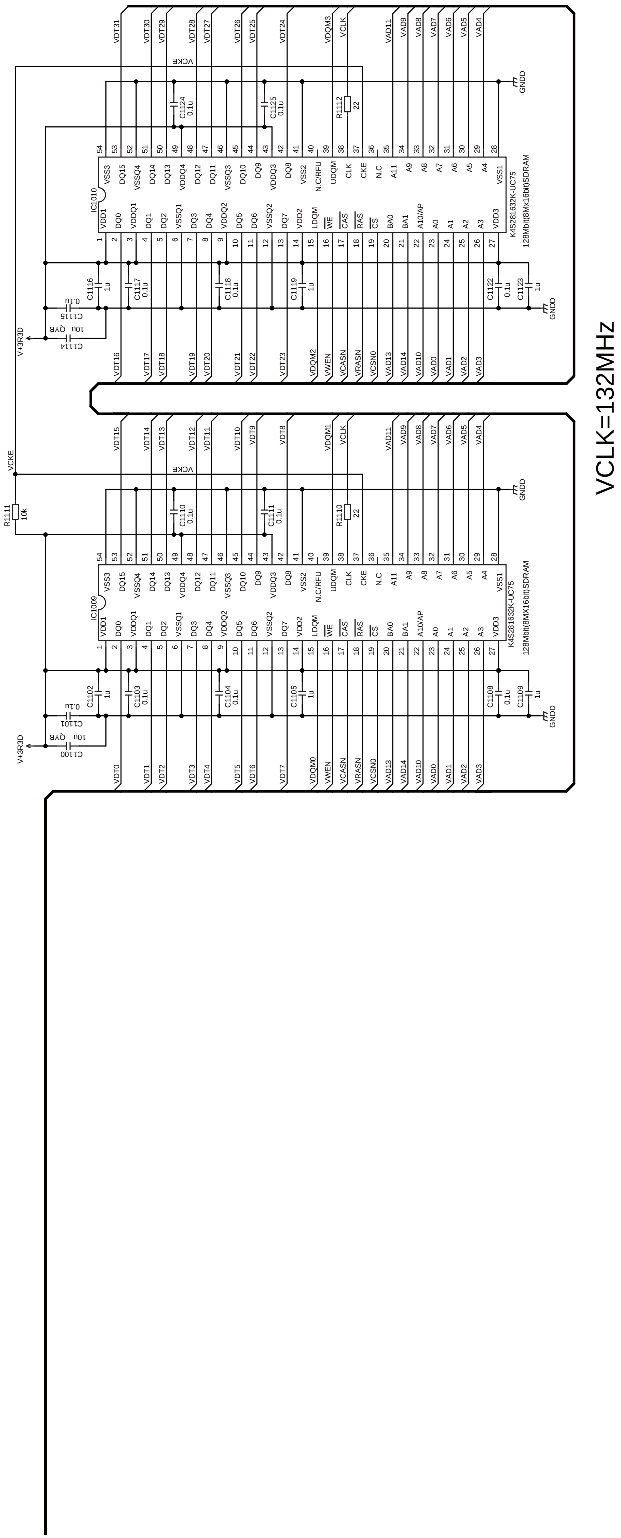
C

**Large size
SCH diagram**



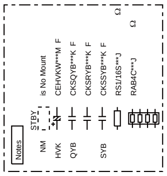
D

E

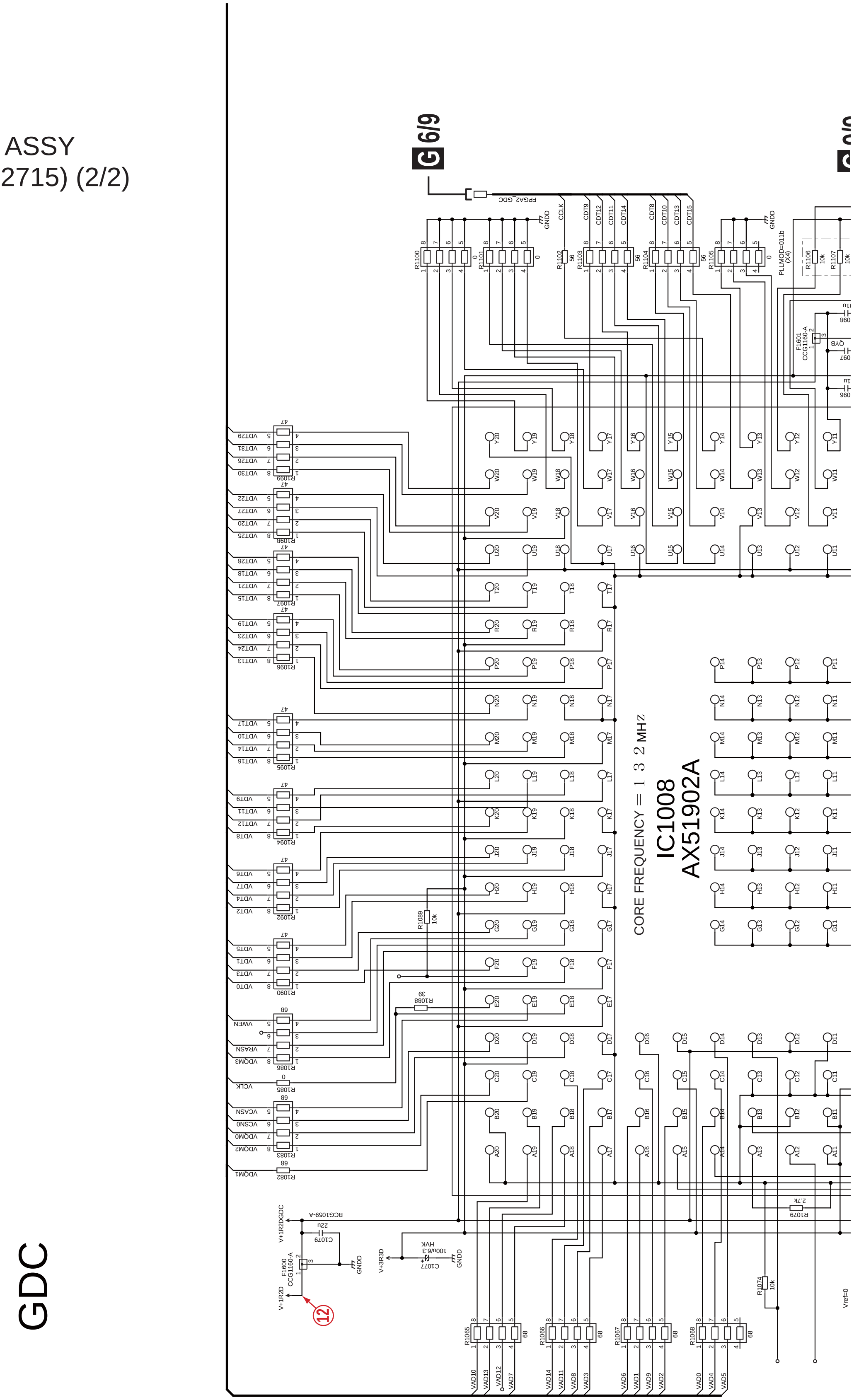

IC1010
IC1009
K4S281632K-UC75
128Mbit(8Mx16bit)SDRAM
VCLK=132MHz
VDD1 DQ0 VDDQ1 DQ1 DQ2 VSSQ1 DQ3 DQ4 VDDQ2 DQ5 DQ6 VSSQ2 DQ7 VDD2 LDQM WE CAS RAS CS BA0 BA1 A10/AP A0 A1 A2 A3 VDD3
VSS3 DQ15 VSSQ4 DQ14 DQ13 VDDQ4 DQ12 DQ11 VSSQ3 DQ10 DQ9 VDDQ3 DQ8 VSS2 N.C/RFU UDQM CLK CKE N.C A11 A9 A8 A7 A6 A5 A4 VSS1
C1124 0.1u
C1125 0.1u
R1112 22
C1116 1u
C1117 0.1u
C1118 0.1u
C1119 1u
C1122 0.1u
C1123 1u
C1115 0.1u
C1114 10u
C1110 0.1u
C1111 0.1u
R1110 22
R1111 10k
C1102 1u
C1103 0.1u
C1104 0.1u
C1105 1u
C1108 0.1u
C1109 1u
C1101 0.1u
C1100 10u
QYB
V+3R3D
VCKE
GNDD
VDT0 VDT1 VDT2 VDT3 VDT4 VDT5 VDT6 VDT7 VDT8 VDT9 VDT10 VDT11 VDT12 VDT13 VDT14 VDT15
VDT16 VDT17 VDT18 VDT19 VDT20 VDT21 VDT22 VDT23 VDT24 VDT25 VDT26 VDT27 VDT28 VDT29 VDT30 VDT31
VDQM0 VDQM1 VDQM2 VDQM3
VWEN VCASN VRASN VCSN0 VCLK
VAD0 VAD1 VAD2 VAD3 VAD4 VAD5 VAD6 VAD7 VAD8 VAD9 VAD10 VAD11 VAD13 VAD14

F

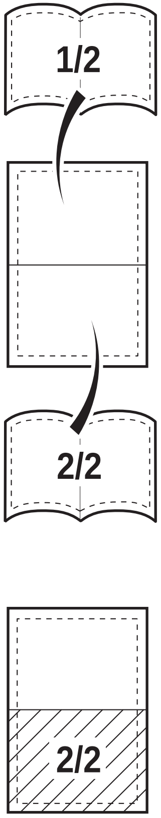
G 5/9

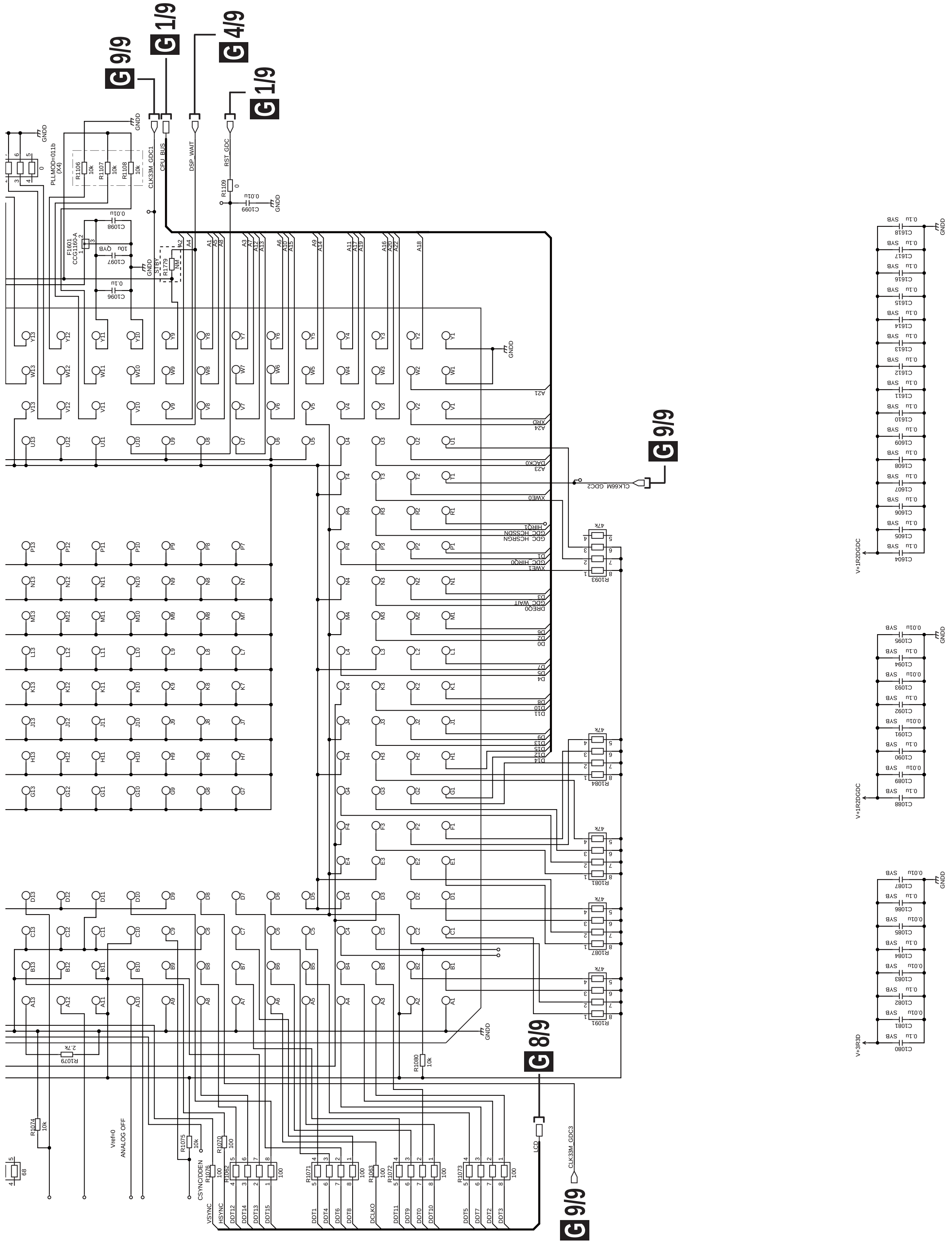

Notes
NM
STBY
is No Mount
HVK
CEHVKW***M F
QYB
CKSQYB***K F
CKSRYB***K F
SYB
CKSSYB***K F
RS1/16S***J
Ω
RAB4C***J
Ω

G 5/9 MAIN ASSY (DWX2715) (2/2)


G 6/9
FPGA2_GDC
GNDD
CCLK
CDT9
CDT12
CDT11
CDT14
CDT8
CDT10
CDT13
CDT15
PLLMOD=011b (X4)
R1100
R1101
R1102
R1103
R1104
R1105
R1106
R1107
10k
F1601
CCG1160-A
QYB
VDT29
VDT31
VDT26
VDT30
VDT22
VDT27
VDT20
VDT25
VDT28
VDT18
VDT21
VDT15
VDT19
VDT23
VDT24
VDT13
VDT17
VDT10
VDT14
VDT16
VDT9
VDT11
VDT12
VDT8
VDT6
VDT7
VDT4
VDT2
VDT5
VDT1
VDT3
VDT0
VWEN
VRASN
VDQM3
VCLK
VCASN
VCSN0
VDQM0
VDQM2
VDQM1
R1099
R1098
R1097
R1096
R1095
R1094
R1092
R1090
R1086
R1085
R1083
R1082
R1089
R1088
47
68
39
10k
CORE FREQUENCY = 1 3 2 MHz
IC1008
AX51902A
R1079
2.7k
R1074
10k
Vref=0
V+1R2DGDC
BCG1059-A
C1079
22u
F1600
CCG1160-A
V+1R2D
GNDD
V+3R3D
C1077
100u/6.3
HVK
12
R1065
R1066
R1067
R1068
68
VAD10
VAD13
VAD12
VAD7
VAD14
VAD11
VAD8
VAD3
VAD6
VAD1
VAD9
VAD2
VAD0
VAD4
VAD5
GDC

Large size SCH diagram

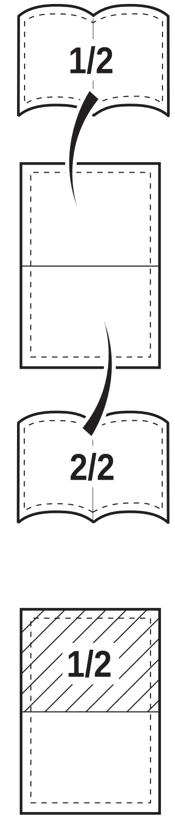


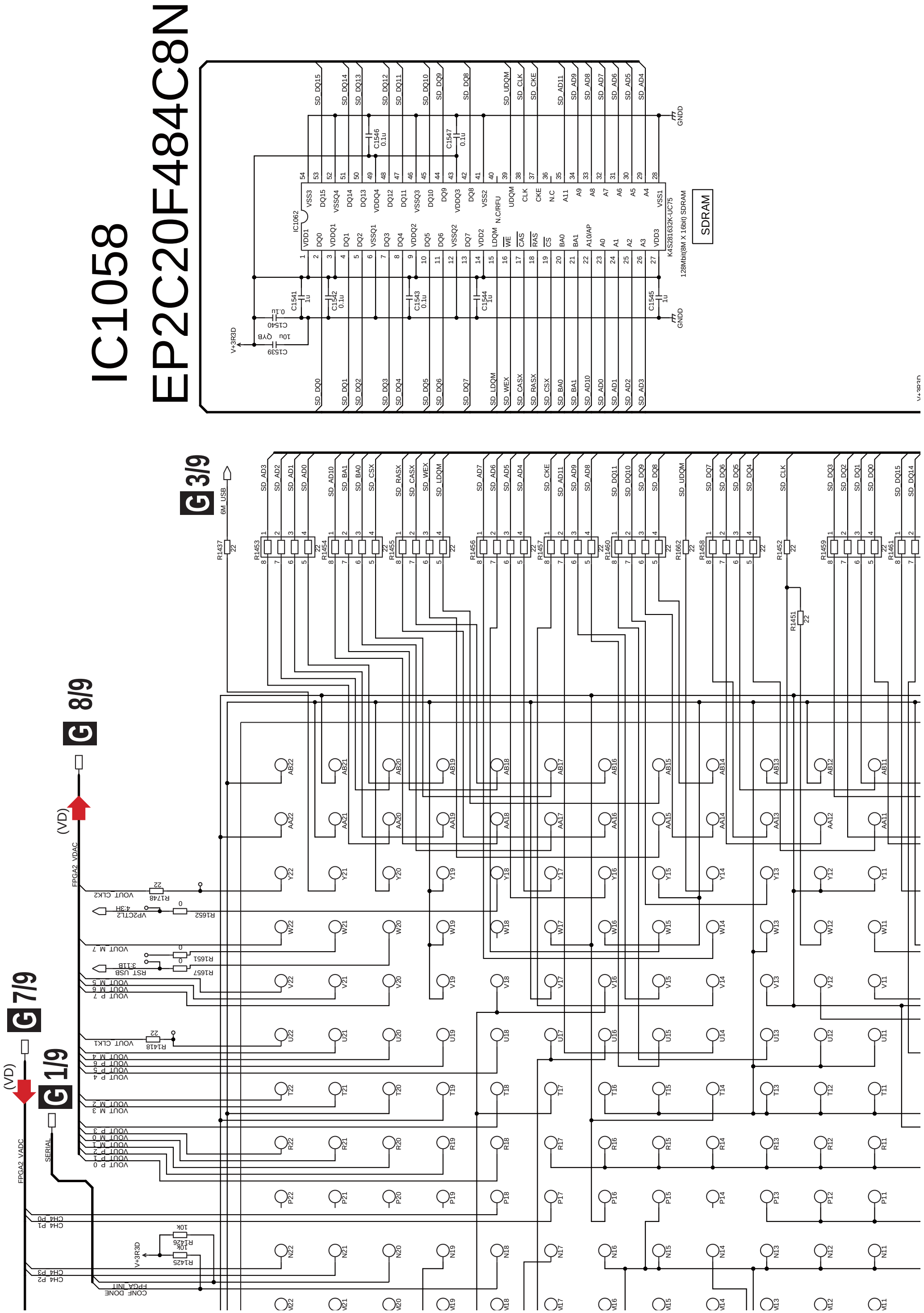

G 9/9
G 1/9
G 4/9
G 1/9
GNDD
CPU_BUS
DSP_WAIT
RST_GDC
CLK33M_GDC1
PLLMOD=011b (X4)
R1106 10k
R1107 10k
R1108 10k
R1109 0
C1099 0.01u
F1601 CCG1160A
C1098 0.01u
C1097 10u
C1096 0.1u
R1179 NM
A21
XRD
A24
DACK0
A23
XWE0
HIRQ1
GDC_HCSSDN
GDC_HCSRGN
D1
GDC_HIRQ0
XWE1
D3
GDC_WAIT
DREQ0
D6
D2
D0
D7
D5
D4
D8
D10
D11
D9
D13
D15
D12
D14
G 9/9
CLK66M_GDC2
R1093 47k
R1084 47k
R1081 47k
R1087 47k
R1091 47k
R1080 10k
R1079 2.7k
R1074 10k
68
Vref=0
ANALOG OFF
R1075 10k
R1070 100
R1076 100
R1062 100
R1071 100
R1063 100
R1072 100
R1073 100
CSYNC/DDEN
VSYNC
HSYNC
DDT12
DDT14
DDT13
DDT15
DDT1
DDT4
DDT6
DDT8
DCLKO
DDT11
DDT9
DDT0
DDT10
DDT5
DDT7
DDT2
DDT3
G 8/9
LCD
CLK33M_GDC3
G 9/9
C1604 – C1618 0.1u SVB
V+1R2DGDC
C1088 – C1095 0.01u SVB
V+1R2DGDC
C1080 – C1087 0.01u SVB
V+3R3D

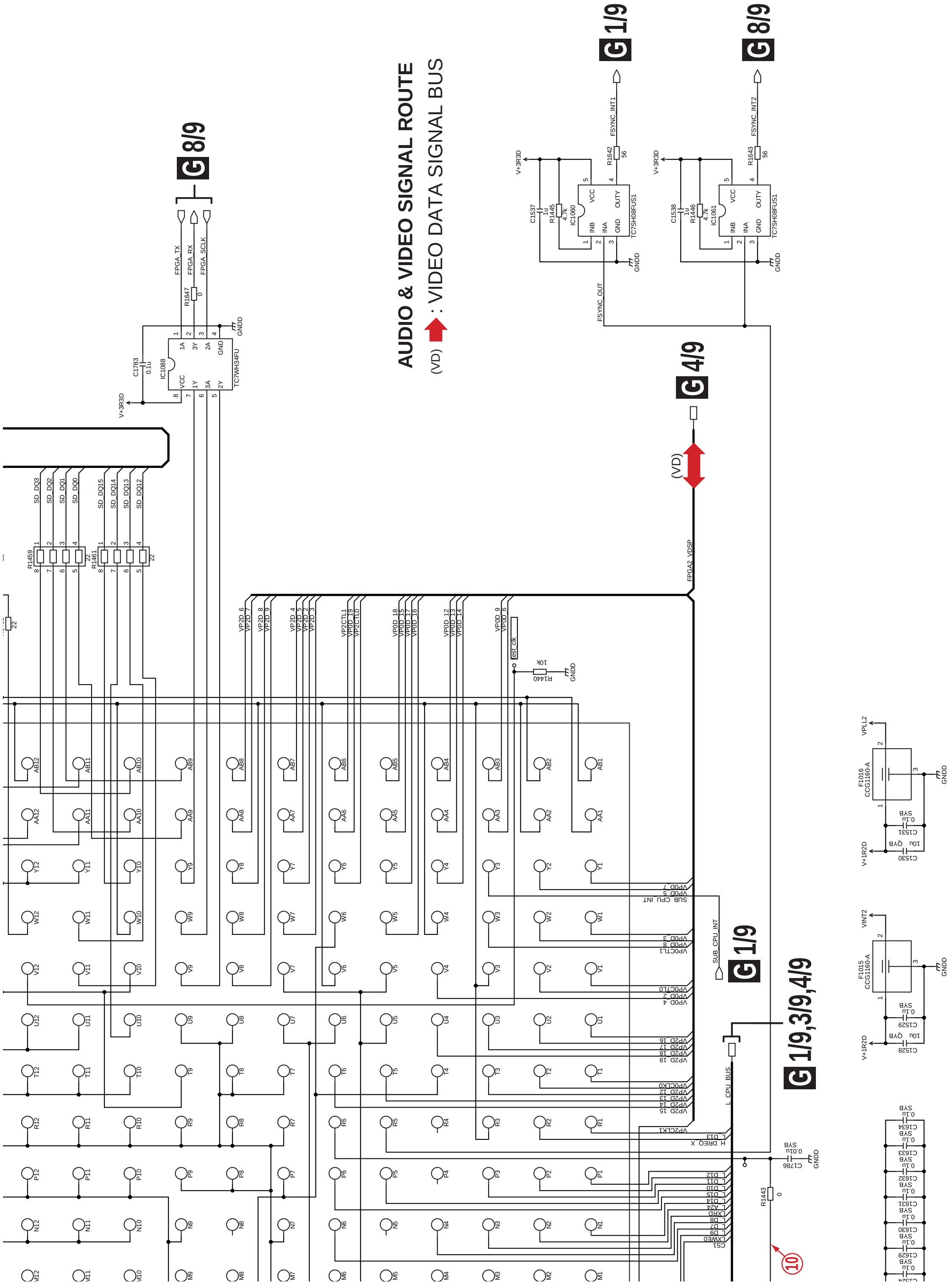
10.18 MAIN ASSY (6/9)

G 6/9 MAIN ASSY
(DWX2715) (1/2)

Large size SCH diagram

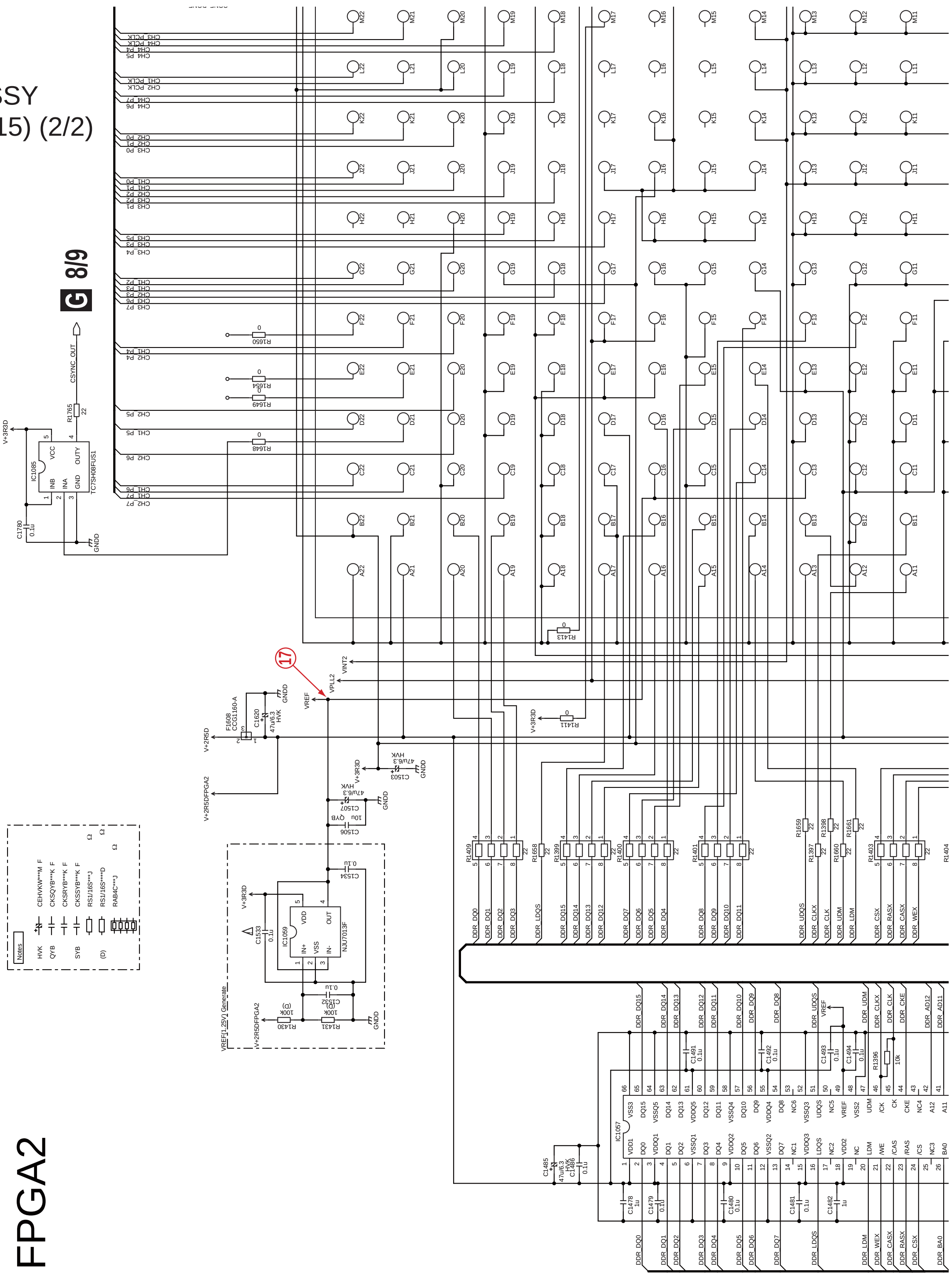



IC1058
EP2C20F484C8N
IC1062
K4S281632K-UC75
128Mbit(8M X 16bit) SDRAM
SDRAM
GNDD
V+3R3D
G 3/9
6M_USB
G 8/9
(VD)
FPGA2_VDAC
G 7/9
(VD)
G 1/9
SERIAL
FPGA2_VDAC
VOUT_CLK2
VP2CTL2
VOUT_CLK1
RST_USB
CONF_DONE
FPGA_INIT

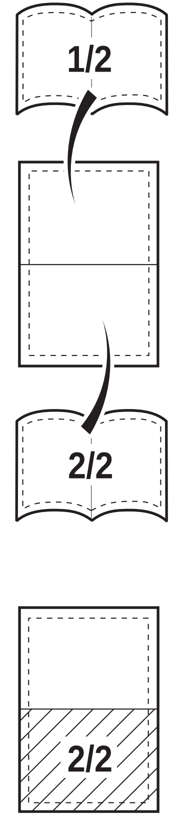

AUDIO & VIDEO SIGNAL ROUTE
(VD) : VIDEO DATA SIGNAL BUS
G 8/9
FPGA TX
FPGA RX
FPGA SCLK
R1647
0
C1783
0.1u
IC1088
TC7WH34FU
V+3R3D
GNDD
SD DQ3
SD DQ2
SD DQ1
SD DQ0
SD DQ15
SD DQ14
SD DQ13
SD DQ12
R1459
R1461
22
G 1/9
FSYNC INT1
R1642
56
C1537
R1445
4.7k
IC1060
TC7SH08FUS1
G 8/9
FSYNC INT2
R1643
56
C1538
R1446
4.7k
IC1061
TC7SH08FUS1
FSYNC OUT
G 4/9
(VD)
FPGA2 VDSP
R1440
10K
SUB CPU INT
G 1/9
L CPU BUS
G 1/9,3/9,4/9
R1443
0
C1786
0.01u
H DREQ X
VPLL2
F1016
CCG1160-A
C1531
C1530
V+1R2D
VINT2
F1015
CCG1160-A
C1529
C1528
⑩

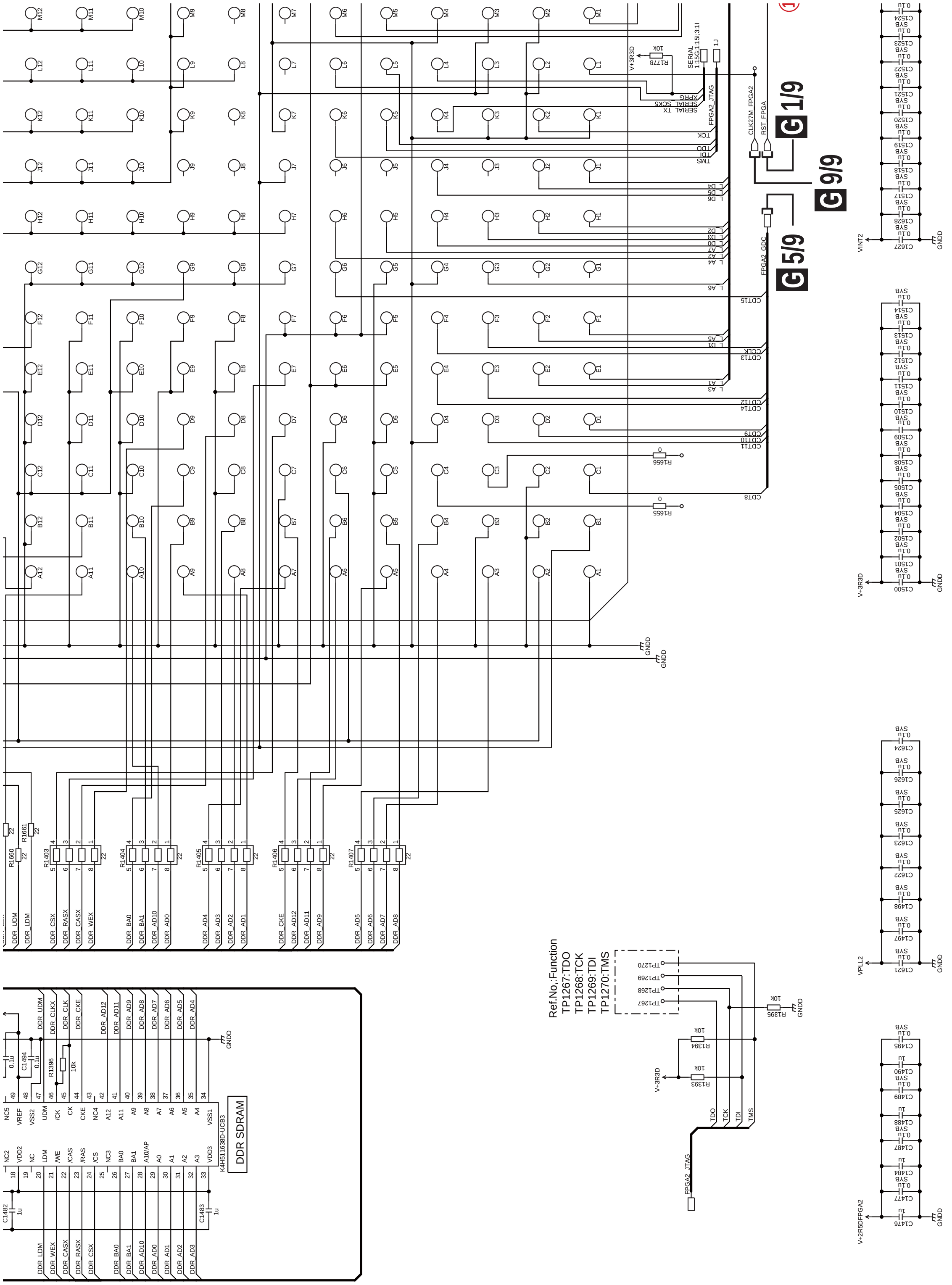
G 6/9

G 6/9 MAIN ASSY
(DWX2715) (2/2)


G 8/9
CSYNC_OUT
R1765 22
IC1085 TC7SH08FUS1
VCC
INB
INA
GND
OUTY
V+3R3D
C1780 0.1u
GNDD
CH3_PCLK
CH4_PCLK
CH4_P4
CH4_P5
CH1_PCLK
CH2_PCLK
CH4_P7
CH4_P6
CH2_P0
CH2_P1
CH3_P0
CH1_P0
CH1_P1
CH2_P2
CH3_P2
CH3_P1
CH3_P5
CH3_P3
CH3_P4
CH1_P2
CH1_P3
CH2_P3
CH3_P6
CH3_P7
CH1_P4
CH2_P4
CH2_P5
CH1_P5
CH2_P6
CH1_P6
CH1_P7
CH2_P7
R1650 0
R1654 0
R1649 0
R1648 0
R1413 0
R1411 0
V+3R3D
VINT2
VPLL2
VREF
17
F1608 CCG1160-A
C1620 47u/6.3 HVK
GNDD
V+2R5D
V+2R5DFPGA2
C1503 47u/6.3 HVK
C1507 47u/6.3 HVK
C1506 10u QYB
C1534 0.1u
C1533 0.1u
IC1059 NJU7013F
VDD
OUT
IN+
VSS
IN-
C1532 0.1u
R1431 100k (D)
R1430 100k (D)
VREF(1.25V) Generate
Notes
HVK CEHVKW***M F
QYB CKSQYB***K F
CKSRYB***K F
SYB CKSSYB***K F
RS1/16S***J
(D) RS1/16S****D
RAB4C***J
Ω
R1409 22
R1658 22
R1399 22
R1400 22
R1401 22
R1659 22
R1397 22
R1398 22
R1660 22
R1661 22
R1403 22
R1404
DDR_DQ0
DDR_DQ1
DDR_DQ2
DDR_DQ3
DDR_LDQS
DDR_DQ15
DDR_DQ14
DDR_DQ13
DDR_DQ12
DDR_DQ7
DDR_DQ6
DDR_DQ5
DDR_DQ4
DDR_DQ8
DDR_DQ9
DDR_DQ10
DDR_DQ11
DDR_UDQS
DDR_CLKX
DDR_CLK
DDR_UDM
DDR_LDM
DDR_CSX
DDR_RASX
DDR_CASX
DDR_WEX
DDR_CKE
DDR_AD12
DDR_AD11
DDR_BA0
IC1057
C1485 47u/6.3 HVK
C1486 0.1u
C1478 1u
C1479 0.1u
C1480 0.1u
C1481 0.1u
C1482 1u
C1491 0.1u
C1492 0.1u
C1493 0.1u
C1494 0.1u
R1396 10k
VDD1 DQ0 VDDQ1 DQ1 DQ2 VSSQ1 DQ3 DQ4 VDDQ2 DQ5 DQ6 VSSQ2 DQ7 NC1 VDDQ3 LDQS NC2 VDD2 NC LDM /WE /CAS /RAS /CS NC3 BA0
VSS3 DQ15 VSSQ5 DQ14 DQ13 VDDQ5 DQ12 DQ11 VSSQ4 DQ10 DQ9 VDDQ4 DQ8 NC6 VSSQ3 UDQS NC5 VREF VSS2 UDM /CK CK CKE NC4 A12 A11
M22 M21 M20 M19 M18 M17 M16 M15 M14 M13 M12 M11
L22 L21 L20 L19 L18 L17 L16 L15 L14 L13 L12 L11
K22 K21 K20 K19 K18 K17 K16 K15 K14 K13 K12 K11
J22 J21 J20 J19 J18 J17 J16 J15 J14 J13 J12 J11
H22 H21 H20 H19 H18 H17 H16 H15 H14 H13 H12 H11
G22 G21 G20 G19 G18 G17 G16 G15 G14 G13 G12 G11
F22 F21 F20 F19 F18 F17 F16 F15 F14 F13 F12 F11
E22 E21 E20 E19 E18 E17 E16 E15 E14 E13 E12 E11
D22 D21 D20 D19 D18 D17 D16 D15 D14 D13 D12 D11
C22 C21 C20 C19 C18 C17 C16 C15 C14 C13 C12 C11
B22 B21 B20 B19 B18 B17 B16 B15 B14 B13 B12 B11
A22 A21 A20 A19 A18 A17 A16 A15 A14 A13 A12 A11
FPGA2

Large size SCH diagram





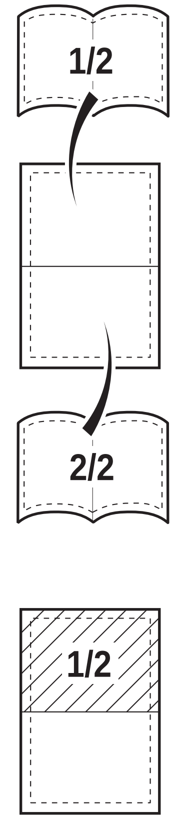
G 1/9
G 9/9
G 5/9
CLK27M_FPGA2
RST_FPGA
FPGA2_GDC
FPGA2_JTAG
SERIAL_TX
SERIAL_SCKS
XPRG
TCK
TDO
TDI
TMS
SERIAL 1:15G 1:15I 3:1I
1J
R1778 10k
V+3R3D
R1656 0
R1655 0
CDT8
CDT9
CDT10
CDT11
CDT12
CDT13
CDT14
CDT15
CCLK
GNDD
R1403
R1404
R1405
R1406
R1407
R1660 22
R1661 22
DDR_UDM
DDR_LDM
DDR_CSX
DDR_RASX
DDR_CASX
DDR_WEX
DDR_BA0
DDR_BA1
DDR_AD10
DDR_AD0
DDR_AD4
DDR_AD3
DDR_AD2
DDR_AD1
DDR_CKE
DDR_AD12
DDR_AD11
DDR_AD9
DDR_AD5
DDR_AD6
DDR_AD7
DDR_AD8
DDR_CLKX
DDR_CLK
DDR SDRAM
K4H511638D-UCB3
C1482 1u
C1483 1u
C1494 0.1u
R1396 10k
R1393 10k
R1394 10k
R1395 10k
TP1267
TP1268
TP1269
TP1270
VINT2
V+3R3D
VPLL2
V+2R5DFPGA2
SVB
0.1u
1u

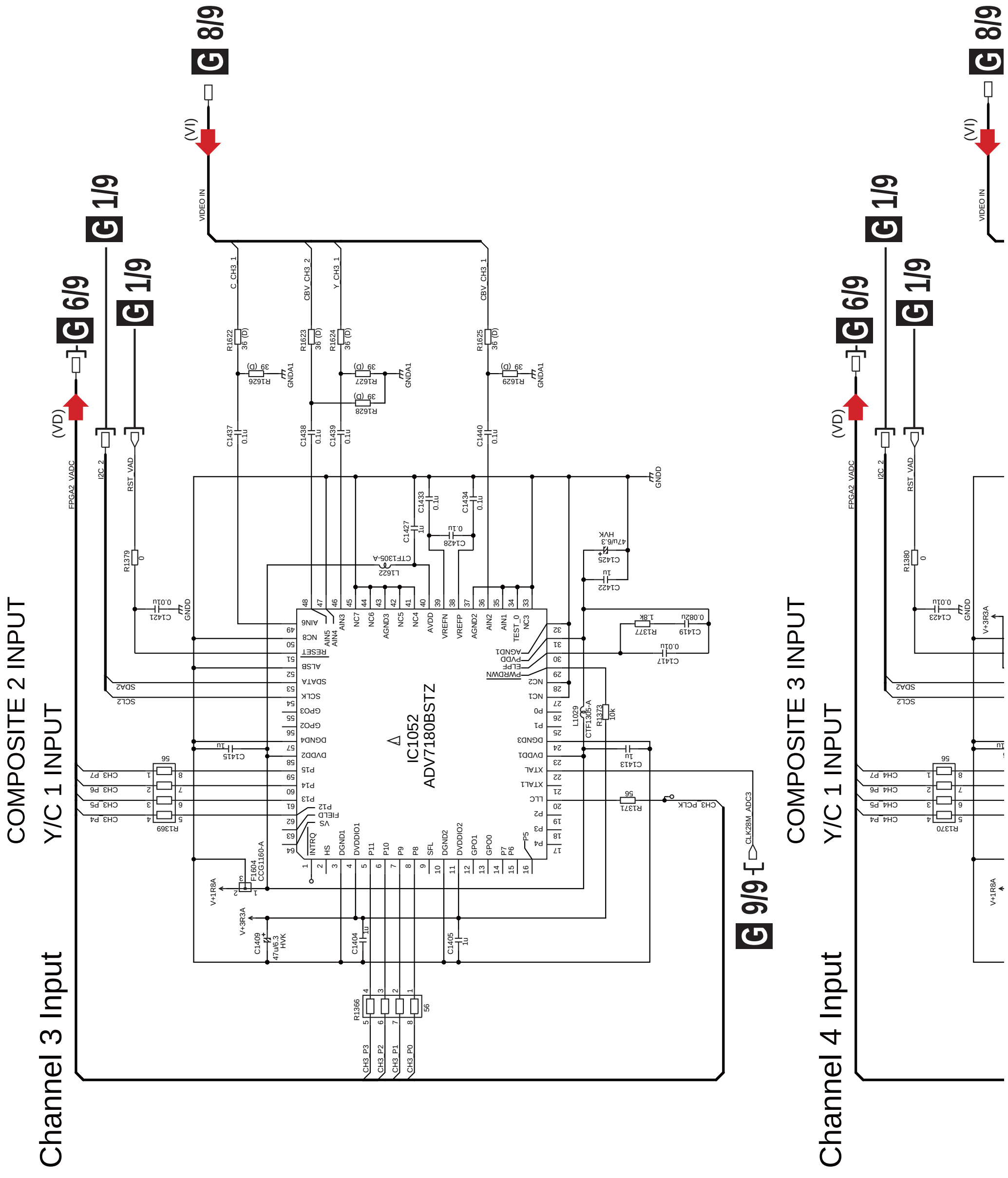
Ref.No.:Function
TP1267:TDO
TP1268:TCK
TP1269:TDI
TP1270:TMS

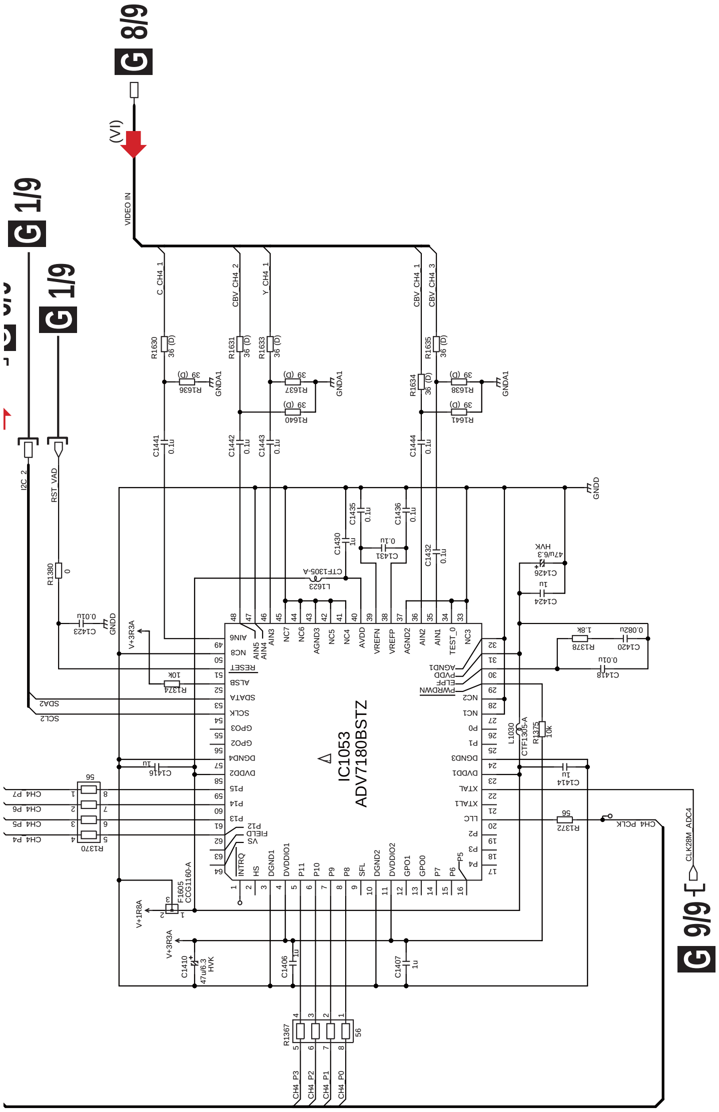
10.19 MAIN ASSY (7/9)

G 7/9 MAIN ASSY (DWX2715) (1/2)

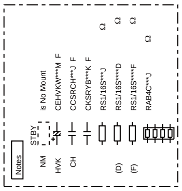
Large size SCH diagram




G 8/9
(VI)
VIDEO IN
G 1/9
G 6/9
G 1/9
(VD)
FPGA2_VADC
I2C_2
RST_VAD
C_CH3_1
CBV_CH3_2
Y_CH3_1
CBV_CH3_1
R1622 36 (D)
R1623 36 (D)
R1624 36 (D)
R1625 36 (D)
R1626 39 (D)
R1627 39 (D)
R1628 39 (D)
R1629 39 (D)
GNDA1
C1437 0.1u
C1438 0.1u
C1439 0.1u
C1440 0.1u
GNDD
C1433 0.1u
C1434 0.1u
C1427 1u
C1428 0.1u
L1622 CTF1305-A
C1425 47u/6.3 HVK
C1422 1u
R1379 0
C1421 0.01u
SDA2
SCL2
IC1052
ADV7180BSTZ
AIN6
NC8
RESET
ALSB
SDATA
SCLK
GPO3
GPO2
DGND4
DVDD2
P15
P14
P13
P12
FIELD
VS
INTRQ
HS
DGND1
DVDDIO1
P11
P10
P9
P8
SFL
DGND2
DVDDIO2
GPO1
GPO0
P7
P6
P5
P4
P3
P2
LLC
XTAL1
XTAL
DVDD1
DGND3
P0
P1
NC1
NC2
PWRDWN
ELPF
PVDD
AGND1
NC3
TEST_0
AIN1
AIN2
AGND2
VREFP
VREFN
AVDD
NC4
NC5
AGND3
NC6
NC7
AIN3
AIN4
AIN5
R1377 1.8k
C1419 0.082u
C1417 0.01u
R1373 10k
L1029 CTF1305-A
C1413 1u
R1371 56
CH3_PCLK
CLK28M_ADC3
G 9/9
R1369 56
CH3_P7
CH3_P6
CH3_P5
CH3_P4
C1415 1u
F1604 CCG1160-A
V+1R8A
V+3R3A
C1409 47u/6.3 HVK
C1404 1u
C1405 1u
R1366 56
CH3_P3
CH3_P2
CH3_P1
CH3_P0
COMPOSITE 2 INPUT
Y/C 1 INPUT
Channel 3 Input
R1380 0
C1423 0.01u
R1370 56
CH4_P7
CH4_P6
CH4_P5
CH4_P4
COMPOSITE 3 INPUT
Y/C 1 INPUT
Channel 4 Input



G 8/9
(VI)
VIDEO IN
G 1/9
G 1/9
I2C_2
RST_VAD
C_CH4_1
CBV_CH4_2
Y_CH4_1
CBV_CH4_1
CBV_CH4_3
R1630 36 (D)
R1631 36 (D)
R1633 36 (D)
R1634 36 (D)
R1635 36 (D)
R1636 39 (D)
R1637 39 (D)
R1638 39 (D)
R1640 39 (D)
R1641 39 (D)
GNDA1
C1441 0.1u
C1442 0.1u
C1443 0.1u
C1444 0.1u
C1430 1u
C1431 0.1u
C1432 0.1u
C1435 0.1u
C1436 0.1u
C1426 47u6.3 HVK
C1424 1u
C1420 0.082u
C1418 0.01u
C1414 1u
C1416 1u
C1423 0.01u
C1406 1u
C1407 1u
C1410 47u6.3 HVK
R1378 1.8K
R1375 10k
R1374 10K
R1372 56
R1370 56
R1367 56
R1380 0
L1623 CTF1305-A
L1030 CTF1305-A
F1605 CCG1160-A
GNDD
V+3R3A
V+1R8A
SDA2
SCL2
IC1053
ADV7180BSTZ
CH4_P7
CH4_P6
CH4_P5
CH4_P4
CH4_P3
CH4_P2
CH4_P1
CH4_P0
CH4_PCLK
CLK28M_ADC4
G 9/9



Notes
STBY
NM is No Mount
HVK CEHVKW***M F
CH CCSRCH***J F
CKSRYB***K F
RS1/16S***J Ω
(D) RS1/16S***D Ω
(F) RS1/16S***F Ω
RAB4C***J Ω

AUDIO & VIDEO SIGNAL ROUTE

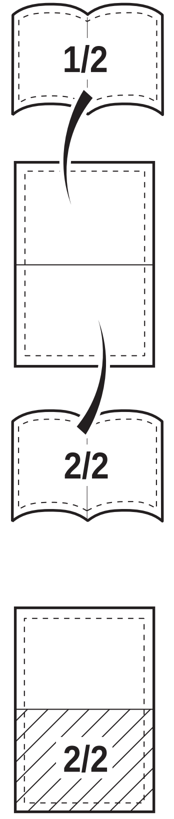
(VI) 🡅 : VIDEO IN SIGNAL

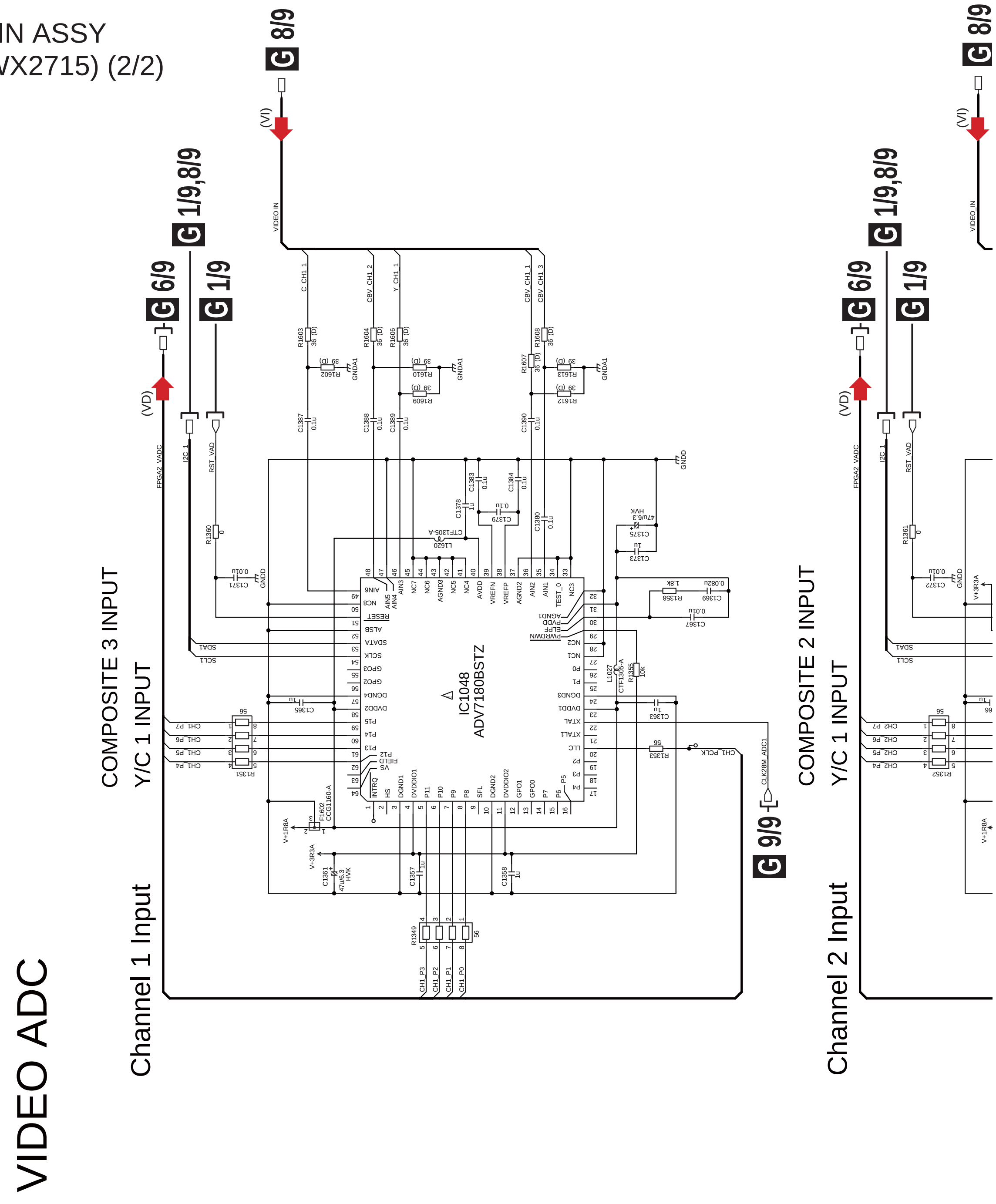
(VD) 🡅 : VIDEO DATA SIGNAL BUS

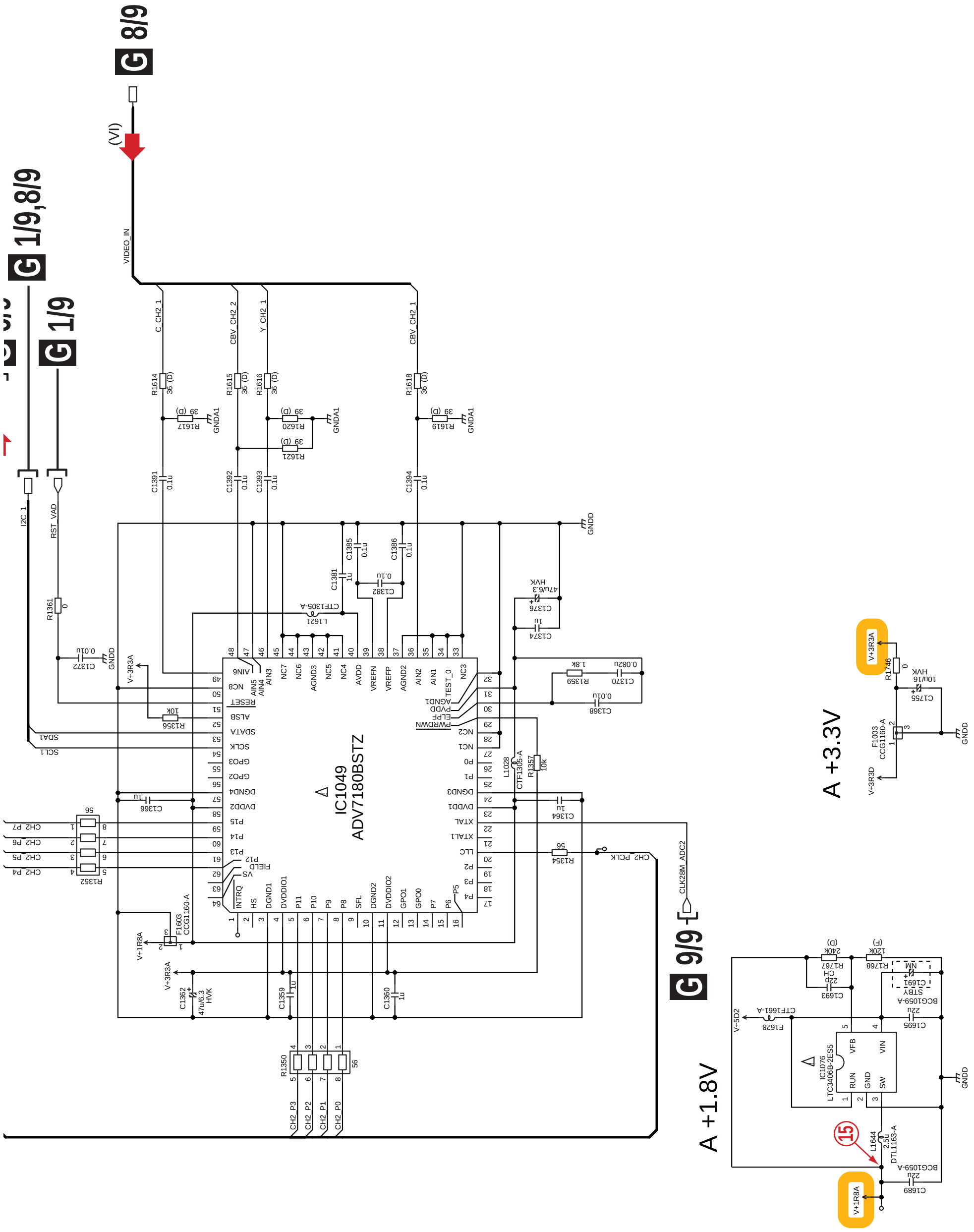
G 7/9

G 7/9 MAIN ASSY (DWX2715) (2/2)

Large size SCH diagram



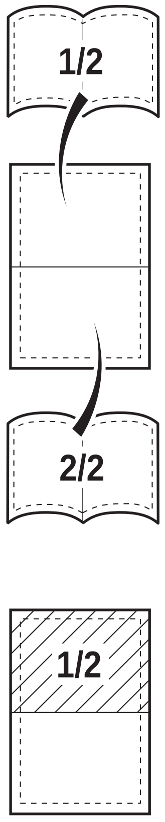

VIDEO ADC
COMPOSITE 3 INPUT
Y/C 1 INPUT
Channel 1 Input
COMPOSITE 2 INPUT
Y/C 1 INPUT
Channel 2 Input
G 8/9
(VI)
VIDEO IN
G 1/9,8/9
G 6/9
G 1/9
(VD)
FPGA2_VADC
I2C_1
RST_VAD
G 9/9
CLK28M_ADC1
IC1048
ADV7180BSTZ
C_CH1_1
CBV_CH1_2
Y_CH1_1
CBV_CH1_1
CBV_CH1_3
GNDA1
GNDD
V+1R8A
V+3R3A
SDA1
SCL1
CH1_P7
CH1_P6
CH1_P5
CH1_P4
CH1_P3
CH1_P2
CH1_P1
CH1_P0
CH1_PCLK
CH2_P7
CH2_P6
CH2_P5
CH2_P4
R1351
R1349
R1352
R1353
R1360
R1361
L1620
CTF1305-A
L1027
F1602
CCG1160-A
HVK

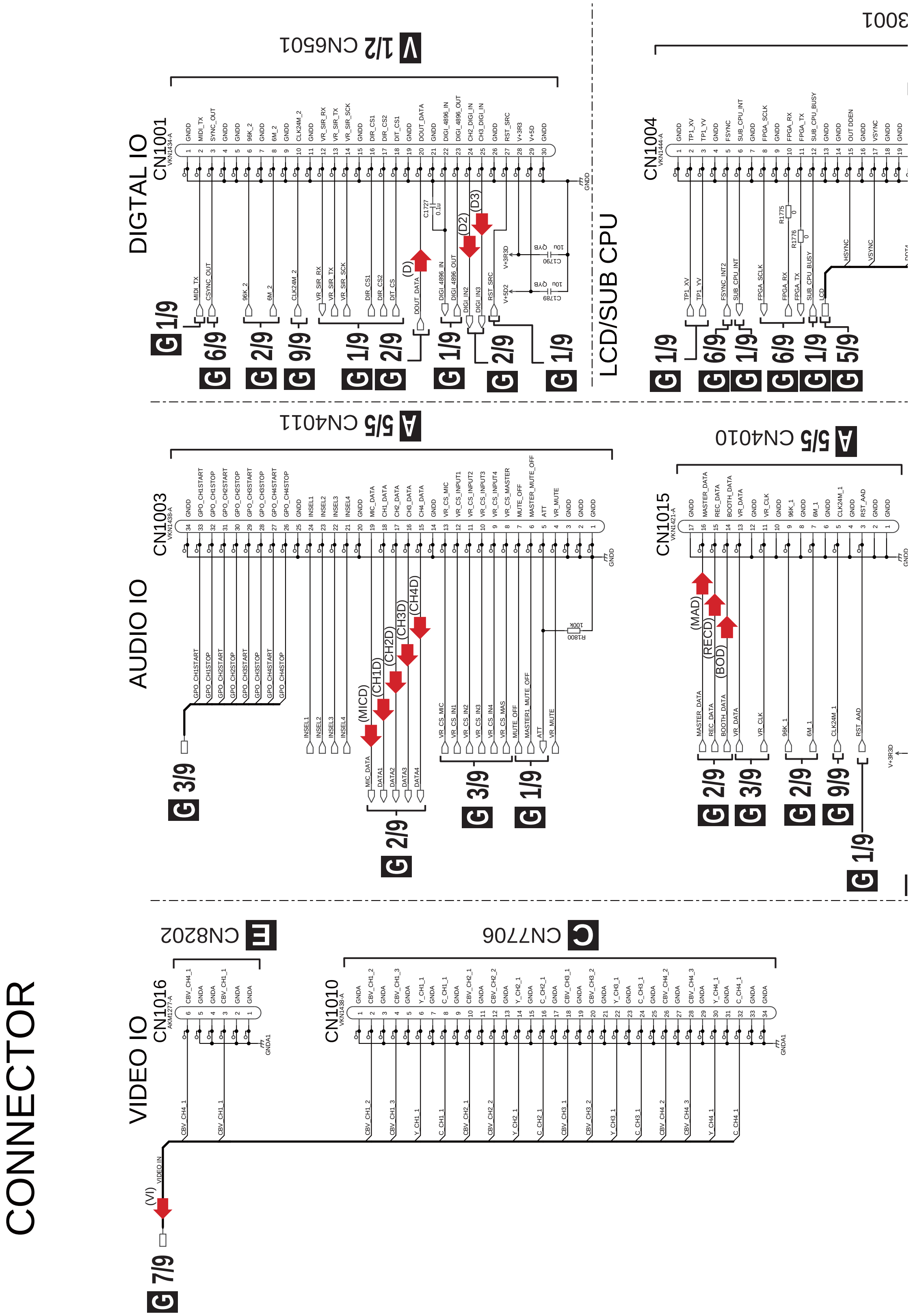

G 8/9
(VI)
VIDEO_IN
G 1/9,8/9
G 1/9
I2C_1
RST_VAD
C_CH2_1
CBV_CH2_2
Y_CH2_1
CBV_CH2_1
R1614
R1615
R1616
R1618
R1617
R1620
R1621
R1619
GNDA1
C1391
C1392
C1393
C1394
GNDD
C1385
C1386
C1381
C1382
L1621
CTF1305-A
C1376
C1374
HVK
R1361
C1372
V+3R3A
IC1049
ADV7180BSTZ
R1356
SDA1
SCL1
C1366
R1352
CH2_P7
CH2_P6
CH2_P5
CH2_P4
F1603
CCG1160-A
V+1R8A
C1362
C1359
C1360
R1350
CH2_P3
CH2_P2
CH2_P1
CH2_P0
C1364
R1354
CH2_PCLK
CLK28M_ADC2
G 9/9
R1357
L1028
CTF1305-A
C1368
C1370
R1359
A +3.3V
V+3R3A
R1746
C1755
F1003
CCG1160-A
V+3R3D
GNDD
A +1.8V
V+5D2
F1628
CTF1661-A
R1767
R1768
C1693
C1691
STBY
NM
C1695
BCG1059-A
IC1076
LTC3406B-2ES5
RUN
GND
SW
VFB
VIN
L1644
2.5u
DTL1163-A
15
C1689
V+1R8A

10.20 MAIN ASSY (8/9)

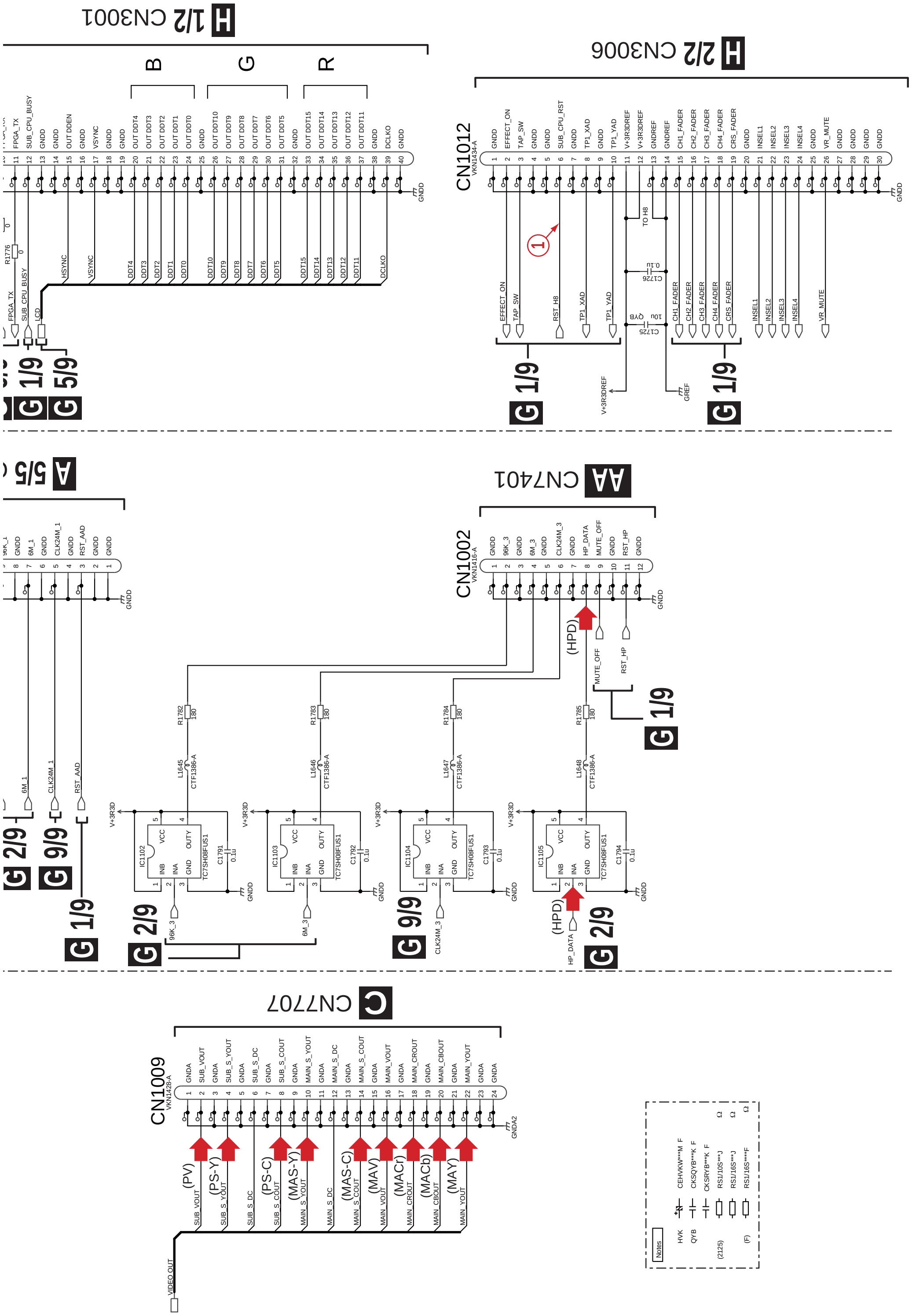
G 8/9 MAIN ASSY
(DWX2715) (1/2)

Large size SCH diagram



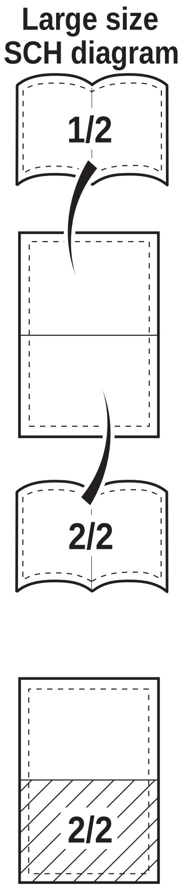

CONNECTOR
DIGITAL IO
CN1001
VKN1434-A
V 1/2 CN6501
LCD/SUB CPU
CN1004
VKN1444-A
3001
AUDIO IO
CN1003
VKN1438-A
A 5/5 CN4011
CN1015
VKN1421-A
A 5/5 CN4010
VIDEO IO
CN1016
AKM1277-A
E CN8202
CN1010
VKN1438-A
C CN7706
G 1/9
G 6/9
G 2/9
G 9/9
G 1/9
G 2/9
G 1/9
G 2/9
G 1/9
G 1/9
G 6/9
G 1/9
G 6/9
G 1/9
G 5/9
G 3/9
G 2/9
G 3/9
G 1/9
G 2/9
G 3/9
G 2/9
G 9/9
G 1/9
G 7/9
(D)
(D2)
(D3)
(MICD)
(CH1D)
(CH2D)
(CH3D)
(CH4D)
(MAD)
(RECD)
(BOD)
(VI)
C1727
C1790
C1789
R1775
R1776
R1800
GNDD
GNDA1
VIDEO IN

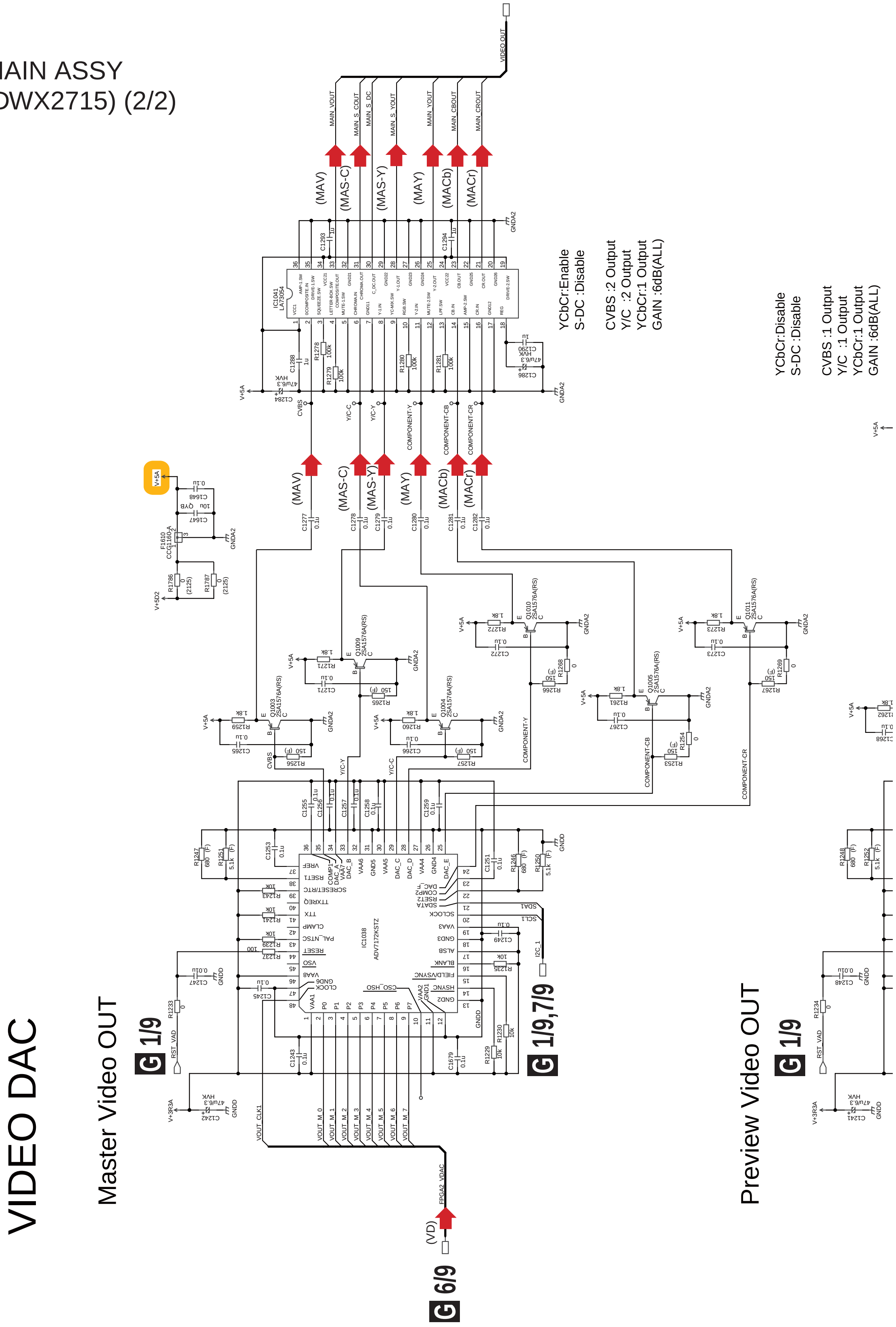
G 8/9

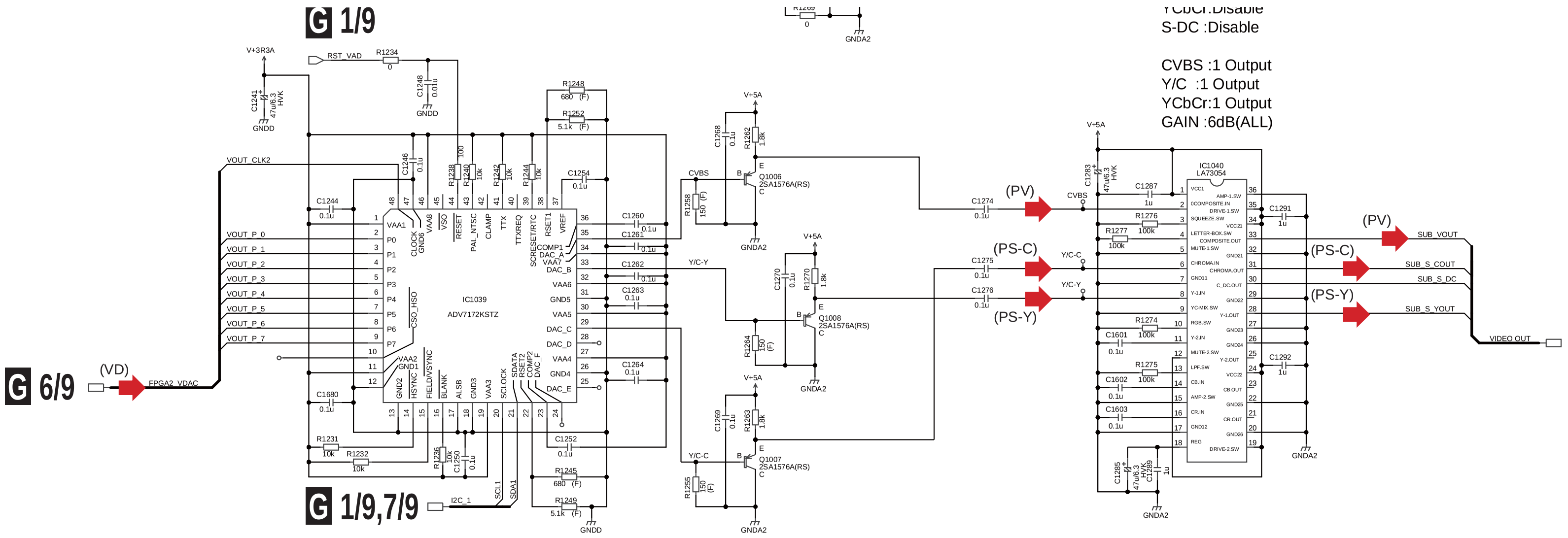

H 1/2 CN3001
B
G
R
H 2/2 CN3006
CN1012
VKN1434-A
GNDD
EFFECT_ON
TAP_SW
SUB_CPU_RST
TP1_XAD
TP1_YAD
V+3R3DREF
GNDREF
CH1_FADER
CH2_FADER
CH3_FADER
CH4_FADER
CRS_FADER
INSEL1
INSEL2
INSEL3
INSEL4
VR_MUTE
RST_H8
TO H8
C1725
10u
QYB
C1726
0.1u
GREF
FPGA_TX
SUB_CPU_BUSY
HSYNC
VSYNC
DCLKO
LCD
R1776
0
G 1/9
G 5/9
AA CN7401
CN1002
VKN1416-A
96K_3
6M_3
CLK24M_3
HP_DATA
MUTE_OFF
RST_HP
(HPD)
A 5/5
6M_1
CLK24M_1
RST_AAD
G 2/9
G 9/9
R1782
R1783
R1784
R1785
180
L1645
L1646
L1647
L1648
CTF1386-A
IC1102
IC1103
IC1104
IC1105
TC7SH08FUS1
VCC
INB
INA
GND
OUTY
C1791
C1792
C1793
C1794
0.1u
V+3R3D
GNDD
C CN7707
CN1009
VKN1428-A
GNDA
SUB_VOUT
SUB_S_YOUT
SUB_S_DC
SUB_S_COUT
MAIN_S_YOUT
MAIN_S_DC
MAIN_S_COUT
MAIN_VOUT
MAIN_CROUT
MAIN_CBOUT
MAIN_YOUT
GNDA2
(PV)
(PS-Y)
(PS-C)
(MAS-Y)
(MAS-C)
(MAV)
(MACr)
(MACb)
(MAY)
VIDEO OUT
①
Notes
HVK CEHVKW***M F
QYB CKSQYB***K F
CKSRYB***K F
(2125) RS1/10S***J Ω
RS1/16S***J Ω
(F) RS1/16S****F Ω

G 8/9

G 8/9 MAIN ASSY (DWX2715) (2/2)


Large size SCH diagram
1/2
2/2
2/2


VIDEO DAC
Master Video OUT
Preview Video OUT
IC1038 ADV7172KSTZ
IC1041 LA73054
YCbCr:Enable
S-DC :Disable
CVBS :2 Output
Y/C :2 Output
YCbCr:1 Output
GAIN :6dB(ALL)
YCbCr:Disable
S-DC :Disable
CVBS :1 Output
Y/C :1 Output
YCbCr:1 Output
GAIN :6dB(ALL)
VIDEO OUT
MAIN_VOUT
MAIN_S_COUT
MAIN_S_DC
MAIN_S_YOUT
MAIN_YOUT
MAIN_CBOUT
MAIN_CROUT
(MAV)
(MAS-C)
(MAS-Y)
(MAY)
(MACb)
(MACr)
CVBS
Y/C-C
Y/C-Y
COMPONENT-Y
COMPONENT-CB
COMPONENT-CR
Q1003 2SA1576A(RS)
Q1004 2SA1576A(RS)
Q1005 2SA1576A(RS)
Q1009 2SA1576A(RS)
Q1010 2SA1576A(RS)
Q1011 2SA1576A(RS)
F1610 CCG1160-A
V+5A
V+5D2
V+3R3A
GNDA2
GNDD
RST_VAD
I2C_1
SDA1
SCL1
VOUT_CLK1
VOUT_M_0
VOUT_M_1
VOUT_M_2
VOUT_M_3
VOUT_M_4
VOUT_M_5
VOUT_M_6
VOUT_M_7
FPGA2_VDAC
(VD)
G 1/9
G 1/9,7/9
G 6/9
G 1/9


G 1/9
G 6/9
G 1/9,7/9
(VD)
FPGA2_VDAC
VOUT_CLK2
VOUT_P_0
VOUT_P_1
VOUT_P_2
VOUT_P_3
VOUT_P_4
VOUT_P_5
VOUT_P_6
VOUT_P_7
V+3R3A
RST_VAD
I2C_1
SCL1
SDA1
IC1039
ADV7172KSTZ
GNDD
GNDA2
V+5A
CVBS
Y/C-Y
Y/C-C
Q1006
Q1007
Q1008
2SA1576A(RS)
(PV)
(PS-C)
(PS-Y)
IC1040
LA73054
SUB_VOUT
SUB_S_COUT
SUB_S_DC
SUB_S_YOUT
VIDEO OUT
YCbCr:Disable
S-DC :Disable
CVBS :1 Output
Y/C :1 Output
YCbCr:1 Output
GAIN :6dB(ALL)

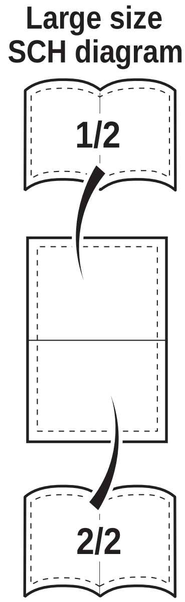
AUDIO & VIDEO SIGNAL ROUTE

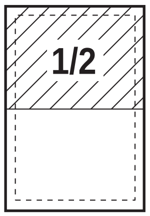
(VI) ➡: VIDEO IN SIGNAL
(VD) ➡: VIDEO DATA SIGNAL BUS
(MAV) ➡: MASTER VIDEO OUT SIGNAL
(MAS-Y) ➡: MASTER S-VIDEO OUT Y SIGNAL
(MAS-C) ➡: MASTER S-VIDEO OUT C SIGNAL
(MAY) ➡: MASTER OUT Y SIGNAL
(MACb) ➡: MASTER OUT Cb SIGNAL
(MACr) ➡: MASTER OUT Cr SIGNAL
(PV) ➡: PREVIEW VIDEO OUT SIGNAL
(PS-Y) ➡: PREVIEW S-VIDEO OUT Y SIGNAL
(PS-C) ➡: PREVIEW S-VIDEO OUT C SIGNAL
(D) ➡: DIGITAL CH SIGNAL
(D2) ➡: CH2 DIGITAL SIGNAL
(D3) ➡: CH3 DIGITAL SIGNAL

(MICD) ➡: MIC DIGITAL CH SIGNAL
(CH1D) ➡: CH1 DIGITAL CH SIGNAL
(CH2D) ➡: CH2 DIGITAL CH SIGNAL
(CH3D) ➡: CH3 DIGITAL CH SIGNAL
(CH4D) ➡: CH4 DIGITAL CH SIGNAL
(MAD) ➡: MASTER DIGITAL CH SIGNAL
(RECD) ➡: REC DIGITAL CH SIGNAL
(BOD) ➡: BOOTH DIGITAL CH SIGNAL
(HPD) ➡: HP DIGITAL CH SIGNAL

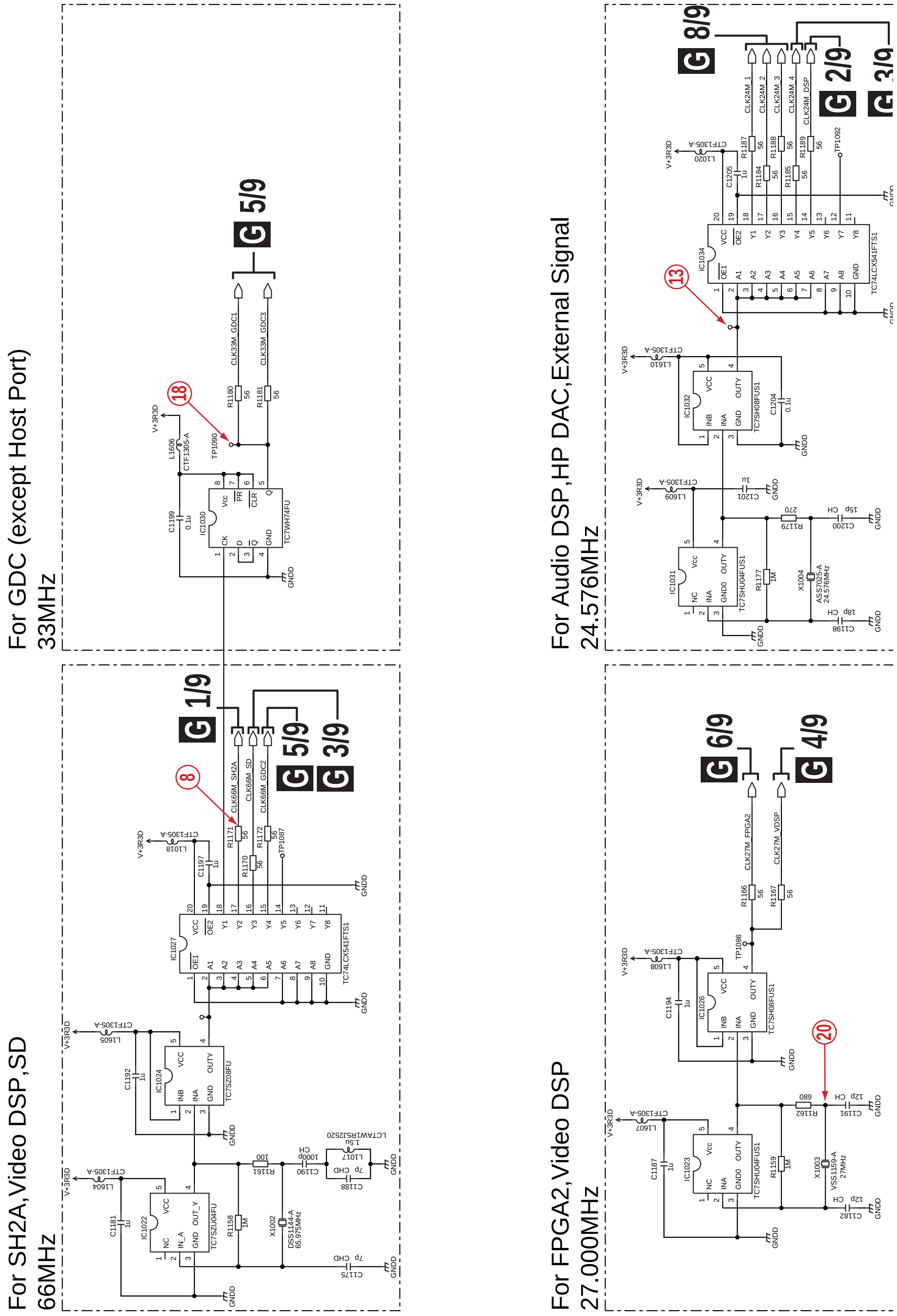
10.21 MAIN ASSY (9/9)

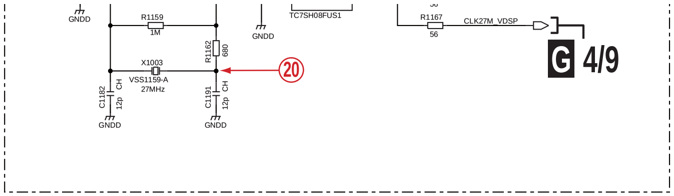
G 9/9 MAIN ASSY
(DWX2715) (1/2)

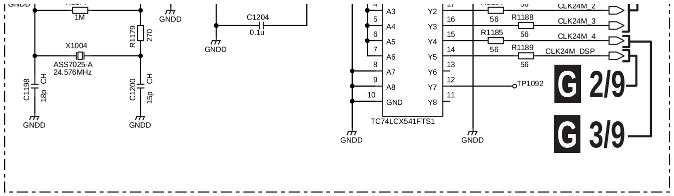

Large size
SCH diagram
1/2
2/2



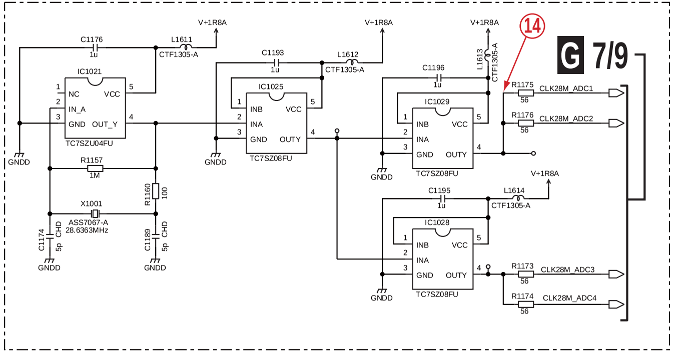
CLOCK


For GDC (except Host Port)
33MHz
For SH2A,Video DSP,SD
66MHz
For Audio DSP,HP DAC,External Signal
24.576MHz
For FPGA2,Video DSP
27.000MHz
G 5/9
G 1/9
G 5/9
G 3/9
G 8/9
G 2/9
G 3/9
G 6/9
G 4/9
CLK33M_GDC1
CLK33M_GDC3
CLK66M_SH2A
CLK66M_SD
CLK66M_GDC2
CLK24M_1
CLK24M_2
CLK24M_3
CLK24M_4
CLK24M_DSP
CLK27M_FPGA2
CLK27M_VDSP
IC1030
TC7WH74FU
IC1027
TC74LCX541FTS1
IC1024
TC7SZ08FU
IC1022
TC7SZU04FU
IC1034
TC74LCX541FTS1
IC1032
TC7SH08FUS1
IC1031
TC7SHU04FUS1
IC1026
TC7SH08FUS1
IC1023
TC7SHU04FUS1
X1002
DSS1144-A
65.975MHz
X1004
ASS7025-A
24.576MHz
X1003
VSS1159-A
27MHz
L1017
1.5u
LCTAW1R5J2520
V+3R3D
CTF1305-A
GNDD
18
8
13
20

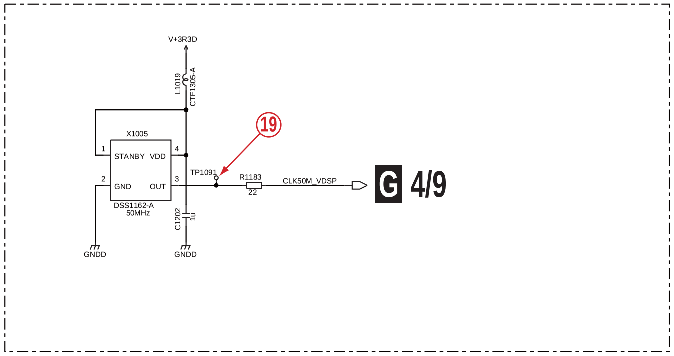

GNDD
R1159
1M
X1003
VSS1159-A
27MHz
R1162
680
C1182
12p
CH
C1191
12p
CH
20
TC7SH08FUS1
R1167
56
CLK27M_VDSP
G 4/9


GNDD
1M
R1179
270
X1004
ASS7025-A
24.576MHz
C1198
18p
CH
C1200
15p
CH
C1204
0.1u
A3
A4
A5
A6
A7
A8
GND
Y2
Y3
Y4
Y5
Y6
Y7
Y8
TC74LCX541FTS1
R1188
56
R1185
56
R1189
56
CLK24M_2
CLK24M_3
CLK24M_4
CLK24M_DSP
TP1092
G 2/9
G 3/9

For Video ADC
28.6363MHz (1.8V DOMAIN)


C1176
1u
L1611
CTF1305-A
V+1R8A
IC1021
NC
IN_A
GND
OUT_Y
VCC
TC7SZU04FU
R1157
1M
X1001
ASS7067-A
28.6363MHz
R1160
100
C1174
5p
CHD
C1189
5p
CHD
C1193
1u
L1612
CTF1305-A
IC1025
INB
INA
GND
VCC
OUTY
TC7SZ08FU
C1196
1u
L1613
CTF1305-A
IC1029
INB
INA
GND
VCC
OUTY
TC7SZ08FU
14
R1175
56
CLK28M_ADC1
R1176
56
CLK28M_ADC2
C1195
1u
L1614
CTF1305-A
IC1028
TC7SZ08FU
R1173
56
CLK28M_ADC3
R1174
56
CLK28M_ADC4
G 7/9
GNDD

For Video DSP
50MHz


V+3R3D
L1019
CTF1305-A
X1005
STANBY
VDD
GND
OUT
DSS1162-A
50MHz
TP1091
19
R1183
22
CLK50M_VDSP
C1202
1u
GNDD
G 4/9

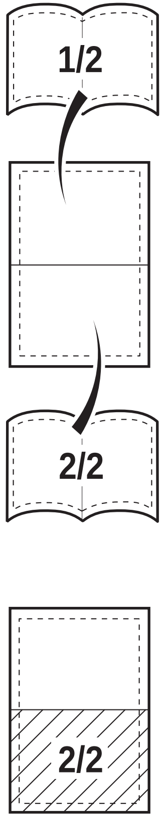
A

G 9/9 MAIN ASSY
(DWX2715) (2/2)

B

C

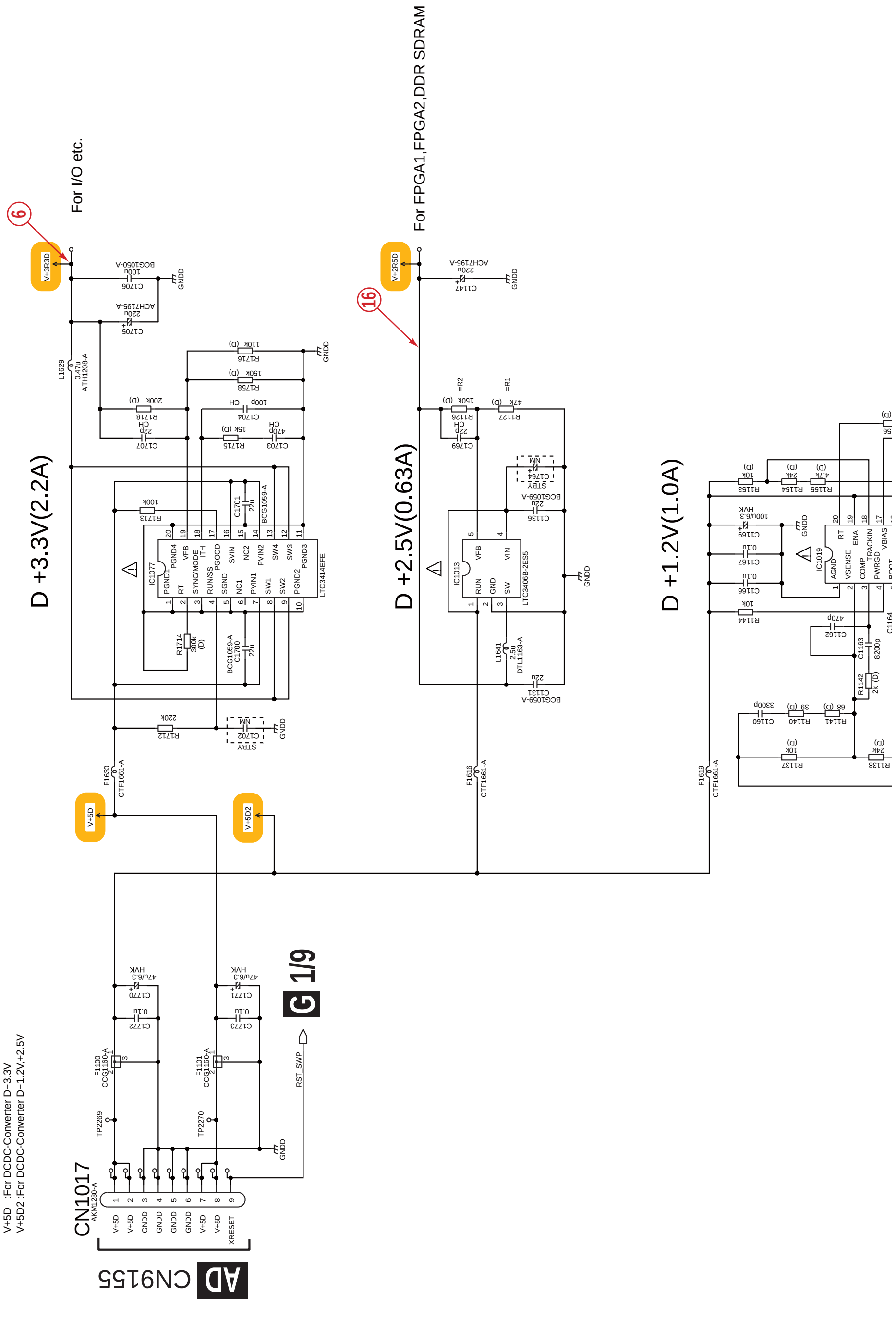
Large size SCH diagram



D

E

POWER

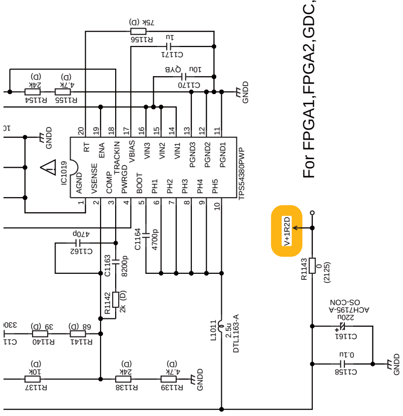

For I/O etc.
For FPGA1,FPGA2,DDR SDRAM
⑥
⑯
V+3R3D
V+2R5D
V+5D
V+5D2
D +3.3V(2.2A)
D +2.5V(0.63A)
D +1.2V(1.0A)
IC1077
LTC3414EFE
IC1013
LTC3406B-2ES5
IC1019
L1629 0.47u ATH1208-A
L1641 2.5u DTL1163-A
C1706 100u BCG1050-A
C1705 220u ACH7195-A
C1147 220u ACH7195-A
R1716 110k (D)
R1758 150k (D)
R1718 200k (D)
C1704 100p CH
C1707 22p CH
R1715 15k (D)
C1703 470p CH
R1713 100k
C1701 22u BCG1059-A
R1714 300k (D)
C1700 22u BCG1059-A
R1712 220k
C1702 NM STBY
R1126 150k (D) =R2
R1127 47k (D) =R1
C1769 22p CH
C1764 NM STBY
C1136 22u BCG1059-A
C1131 22u BCG1059-A
R1153 10k (D)
R1154 24k (D)
R1155 4.7k (D)
C1169 100u/6.3 HVK
C1167 0.1u
C1166 0.1u
R1144 10k
C1162 470p
C1163 8200p
R1142 2k (D)
C1160 3300p
R1140 39 (D)
R1141 68 (D)
R1137 10k (D)
R1138 24k (D)
F1630 CTF1661-A
F1616 CTF1661-A
F1619 CTF1661-A
F1100 CCG1160-A
F1101 CCG1160-A
C1770 47u/6.3 HVK
C1771 47u/6.3 HVK
C1772 0.1u
C1773 0.1u
TP2269
TP2270
RST_SWP
GNDD
G 1/9
CN1017 AKM1280-A
V+5D
V+5D
GNDD
GNDD
GNDD
GNDD
V+5D
V+5D
XRESET
AD CN9155

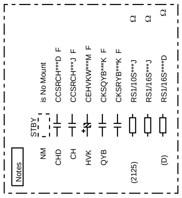
V+5D :For DCDC-Converter D+3.3V
V+5D2 :For DCDC-Converter D+1.2V,+2.5V

F

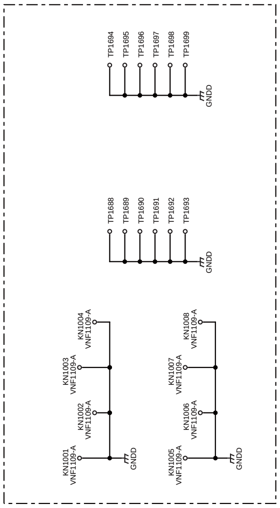
G 9/9

For FPGA1,FPGA2,GDC,ADSP CORE


IC1019
TPS54380PWP
AGND
VSENSE
COMP
PWRGD
BOOT
PH1
PH2
PH3
PH4
PH5
RT
ENA
TRACKIN
VBIAS
VIN3
VIN2
VIN1
PGND3
PGND2
PGND1
R1156 75K (D)
C1171 1u
C1170 10u QYB
R1154 24k (D)
R1155 4.7k (D)
C1162 470p
C1163 8200p
C1164 4700p
R1142 2k (D)
R1141 68 (D)
R1140 39 (D)
R1137 10k (D)
R1138 24k (D)
R1139 4.7k (D)
L1011 2.5u DTL1163-A
R1143 0 (2125)
V+1R2D
C1161 220u ACH7195-A OS-CON
C1158 0.1u
GNDD


Notes
STBY
NM Is No Mount
CHD CCSRCH***D F
CH CCSRCH***J F
HVK CEHVKW***M F
QYB CKSQYB***K F
CKSRYB***K F
(2125) RS1/10S***J Ω
RS1/16S***J Ω
(D) RS1/16S***D Ω

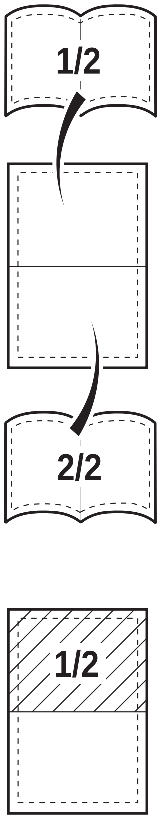
For GND
GNDD to Chassis

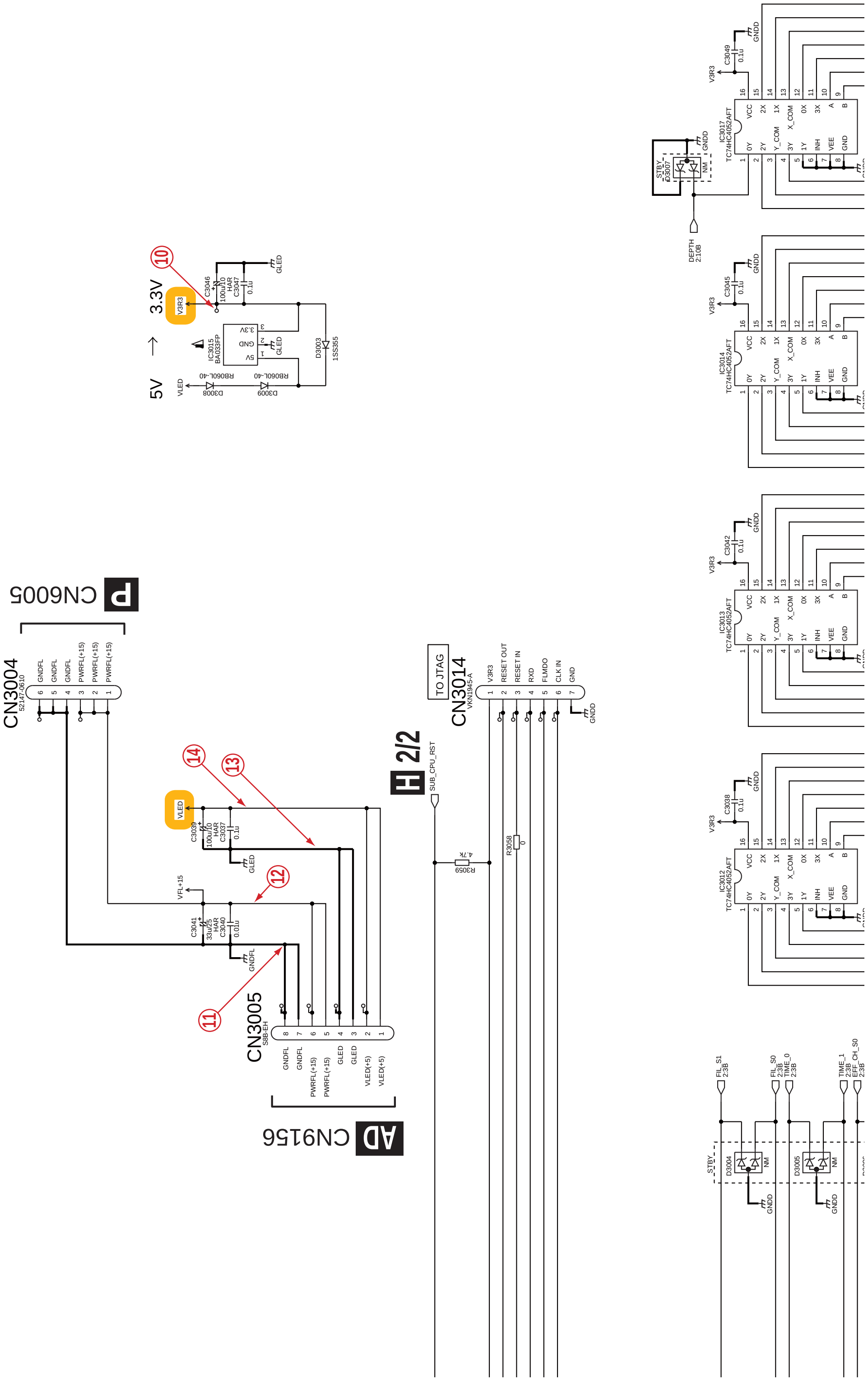

TP1694
TP1695
TP1696
TP1697
TP1698
TP1699
TP1688
TP1689
TP1690
TP1691
TP1692
TP1693
KN1001 VNF1109-A
KN1002 VNF1109-A
KN1003 VNF1109-A
KN1004 VNF1109-A
KN1005 VNF1109-A
KN1006 VNF1109-A
KN1007 VNF1109-A
KN1008 VNF1109-A
GNDD

10.22 SCPU ASSY (1/2)

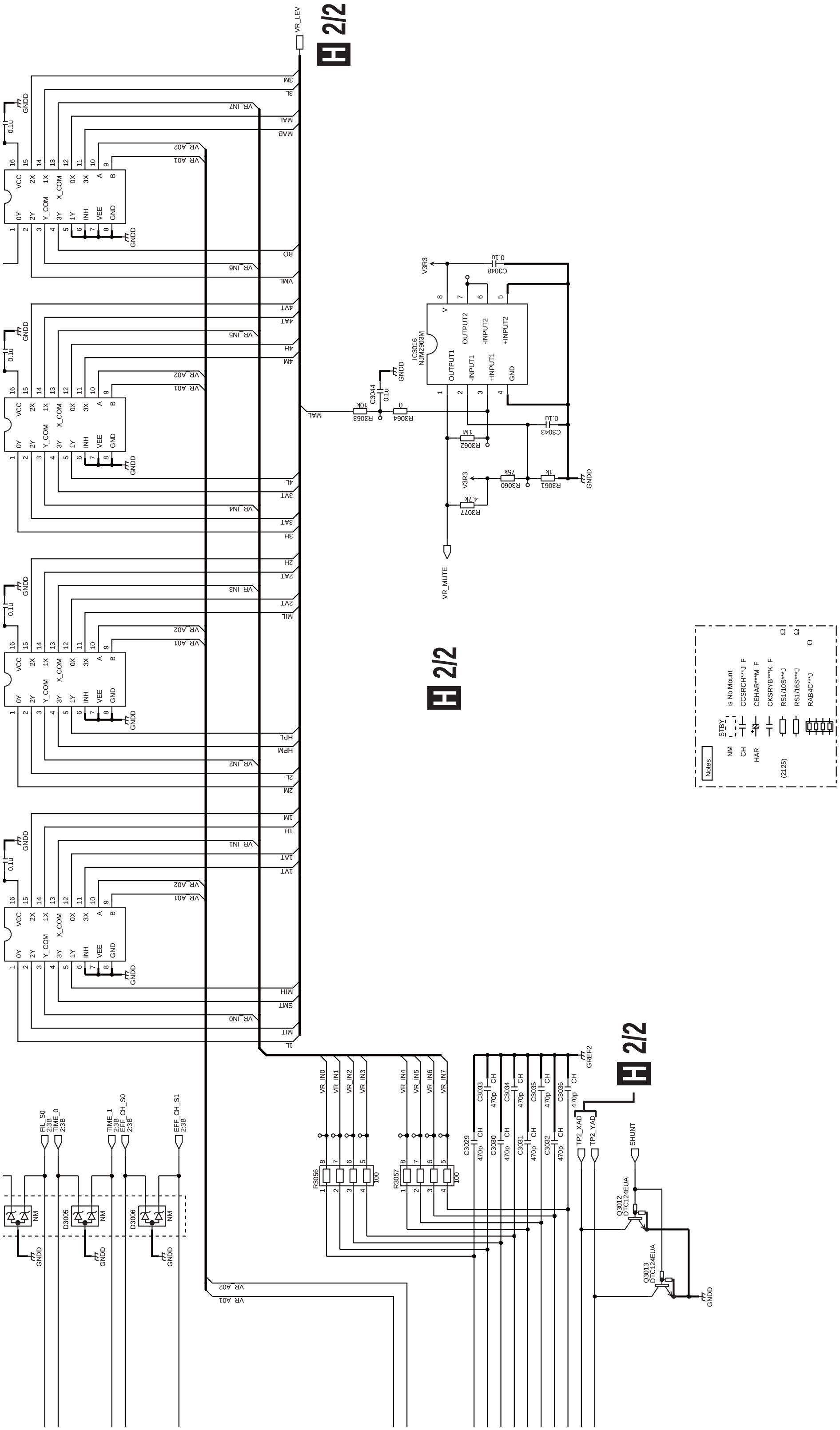
H 1/2 SCPU ASSY
(DWX2716) (1/2)

Large size
SCH diagram



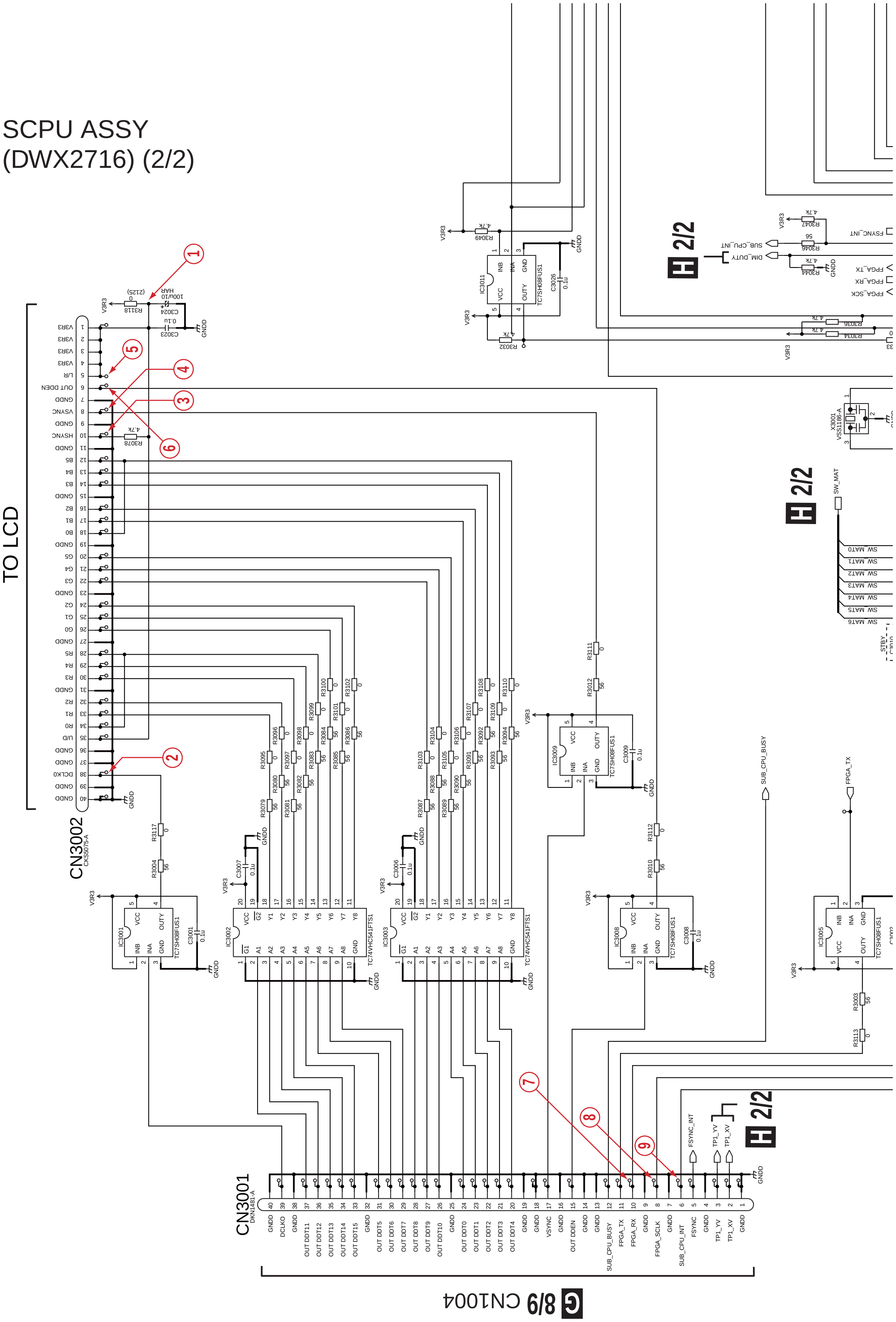

3.3V
→
5V
V3R3
10
C3046
100u/10
HAR
C3047
0.1u
GLED
IC3015
BA033FP
3.3V
GND
5V
3
2
1
GLED
D3003
1SS355
VLED
D3008
RB060L-40
D3009
RB060L-40
P CN6005
CN3004
52147-0610
6 GNDFL
5 GNDFL
4 GNDFL
3 PWRFL(+15)
2 PWRFL(+15)
1 PWRFL(+15)
14
13
VLED
C3039
100u/10
HAR
C3037
0.1u
GLED
12
VFL+15
C3041
33u/25
HAR
C3040
0.01u
GNDFL
11
CN3005
S8B-EH
8 GNDFL
7 GNDFL
6 PWRFL(+15)
5 PWRFL(+15)
4 GLED
3 GLED
2 VLED(+5)
1 VLED(+5)
AD CN9156
H 2/2
SUB_CPU_RST
R3059
4.7k
R3058
0
TO JTAG
CN3014
VKN1945-A
1 V3R3
2 RESET OUT
3 RESET IN
4 RXD
5 FLMDO
6 CLK IN
7 GND
GNDD
V3R3
C3049
0.1u
GNDD
IC3017
TC74HC4052AFT
16 VCC
15 2X
14 1X
13 X_COM
12 0X
11 3X
10 A
9 B
1 0Y
2 2Y
3 Y_COM
4 3Y
5 1Y
6 INH
7 VEE
8 GND
STBY
D3007
NM
GNDD
DEPTH
2:10B
V3R3
C3045
0.1u
GNDD
IC3014
TC74HC4052AFT
V3R3
C3042
0.1u
GNDD
IC3013
TC74HC4052AFT
V3R3
C3038
0.1u
GNDD
IC3012
TC74HC4052AFT
FIL_S1
2:3B
FIL_S0
2:3B
TIME_0
2:3B
TIME_1
2:3B
EFF_CH_S0
2:3B
STBY
D3004
NM
GNDD
D3005
NM
GNDD

H 1/2

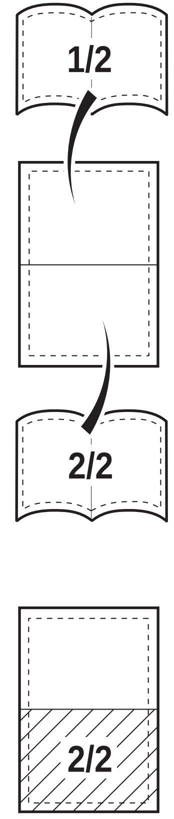

VR_LEV
H 2/2
3M
3L
VR_IN7
MAL
MAB
VR_A02
VR_A01
GNDD
0.1u
VCC
2X
1X
0X
3X
A
B
0Y
2Y
Y_COM
3Y
X_COM
1Y
INH
VEE
GND
BO
VR_IN6
VML
4VT
4AT
VR_IN5
4H
4M
4L
3VT
VR_IN4
3AT
3H
2H
2AT
VR_IN3
2VT
MIL
HPL
HPM
VR_IN2
2L
2M
1M
1H
VR_IN1
1AT
1VT
MIH
SMT
VR_IN0
MIT
1L
V3R3
C3048
0.1u
IC3016
NJM2903M
OUTPUT1
-INPUT1
+INPUT1
GND
OUTPUT2
-INPUT2
+INPUT2
V
C3044
0.1u
R3063
10K
R3064
0
R3062
1M
C3043
0.1u
R3060
75K
R3061
1K
R3077
4.7K
VR_MUTE
H 2/2
Notes
NM
STBY
is No Mount
CH
CCSRCH***J F
HAR
CEHAR***M F
CKSRYB***K F
(2125)
RS1/10S***J Ω
RS1/16S***J Ω
RAB4C***J Ω
FIL_S0
2;3B
TIME_0
2;3B
TIME_1
2;3B
EFF_CH_S0
2;3B
EFF_CH_S1
2;3B
D3005
D3006
NM
VR_IN0
VR_IN1
VR_IN2
VR_IN3
VR_IN4
VR_IN5
VR_IN6
VR_IN7
R3056
R3057
100
C3029
C3030
C3031
C3032
C3033
C3034
C3035
C3036
470p
CH
GREF2
H 2/2
TP2_XAD
TP2_YAD
SHUNT
Q3012
DTC124EUA
Q3013
DTC124EUA
VR_A02
VR_A01

H 1/2

H 1/2 SCPU ASSY (DWX2716) (2/2)


TO LCD
CN3002
CKS5075-A
V3R3
L/R
OUT DDEN
GNDD
VSNC
HSYNC
B5
B4
B3
B2
B1
B0
G5
G4
G3
G2
G1
G0
R5
R4
R3
R2
R1
R0
U/D
DCLKO
R3118
C3024
100u/10
HAR
(2125)
C3023
0.1u
R3078
4.7k
IC3001
TC7SH08FUS1
C3001
IC3002
TC74VHC541FTS1
C3007
IC3003
TC74VHC541FTS1
C3006
IC3008
TC7SH08FUS1
C3008
IC3009
TC7SH08FUS1
C3009
IC3011
TC7SH08FUS1
C3026
IC3005
TC7SH08FUS1
X3001
VSS1186-A
R3117
R3004
R3112
R3010
R3111
R3012
R3003
R3113
R3049
R3032
R3047
R3046
R3044
R3036
R3034
VCC
INB
INA
GND
OUTY
G1
G2
A1 A2 A3 A4 A5 A6 A7 A8
Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
FSYNC_INT
SUB_CPU_INT
DIM_DUTY
FPGA_TX
FPGA_RX
FPGA_SCK
SW_MAT
SW_MAT0
SW_MAT1
SW_MAT2
SW_MAT3
SW_MAT4
SW_MAT5
SW_MAT6
SUB_CPU_BUSY
H 2/2
CN3001
DKN1481-A
GNDD
DCLKO
OUT DDT11
OUT DDT12
OUT DDT13
OUT DDT14
OUT DDT15
OUT DDT5
OUT DDT6
OUT DDT7
OUT DDT8
OUT DDT9
OUT DDT10
OUT DDT0
OUT DDT1
OUT DDT2
OUT DDT3
OUT DDT4
VSVNC
OUT DDEN
SUB_CPU_BUSY
FPGA_TX
FPGA_RX
FPGA_SCLK
SUB_CPU_INT
FSYNC
TP1_YV
TP1_XV
G 8/9 CN1004
①
②
③
④
⑤
⑥
⑦
⑧
⑨

Large size SCH diagram



H 1/2

A

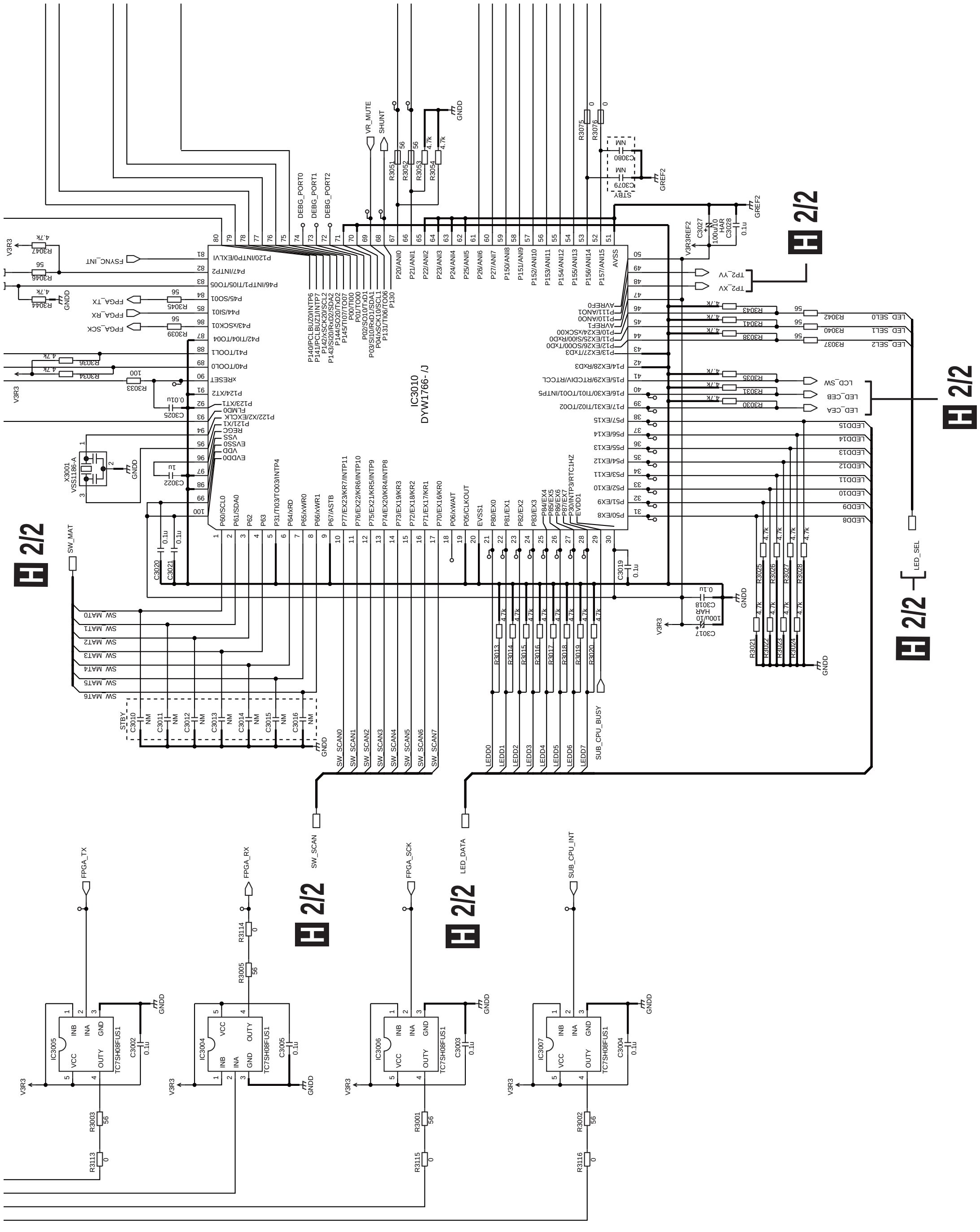
B

C

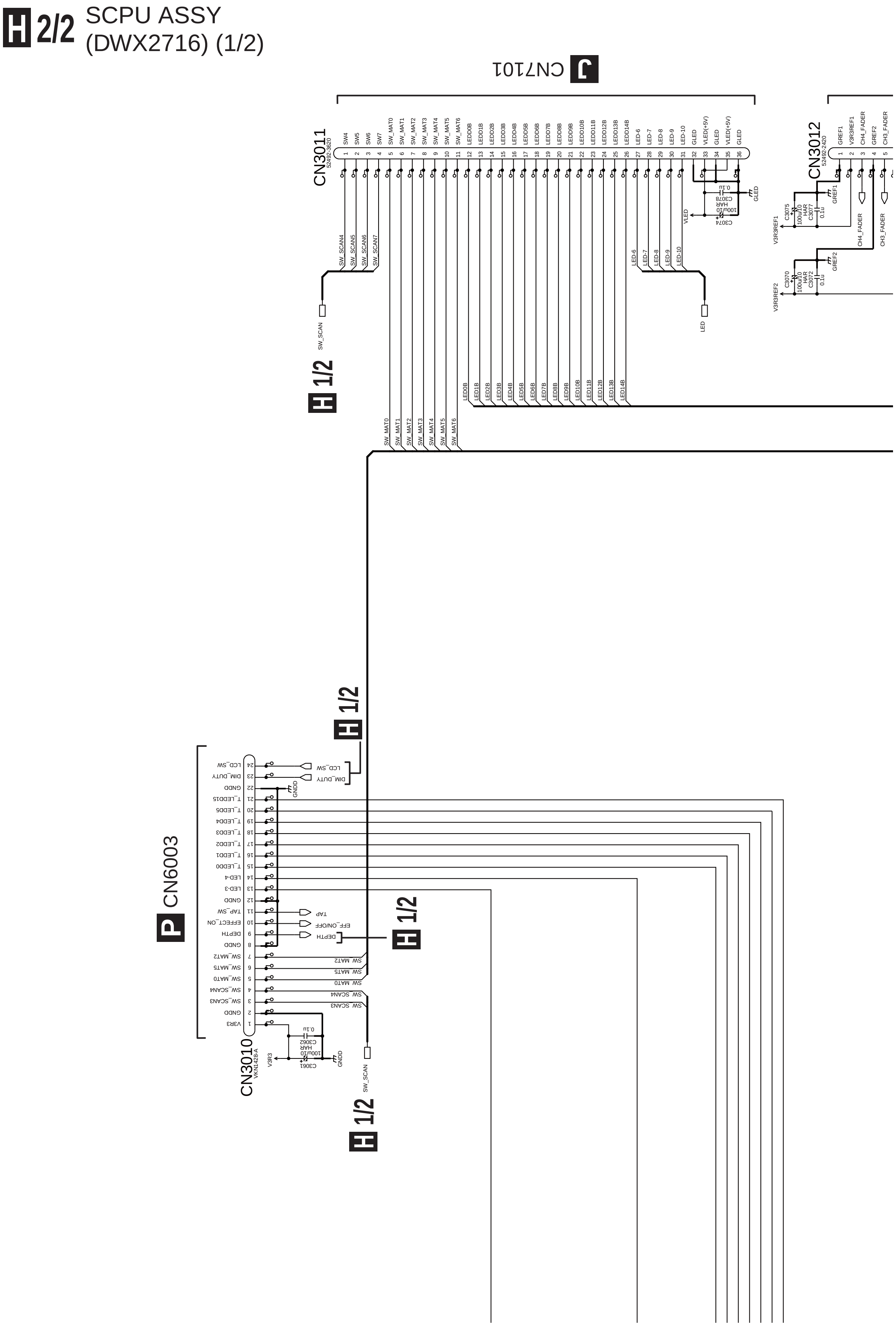
D

E

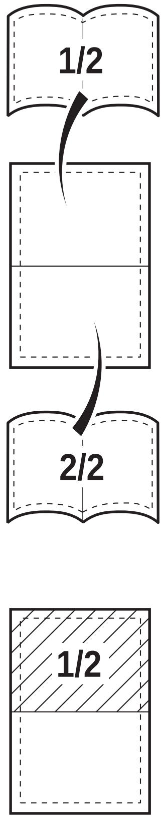
F


IC3010
DYW1766-/J
H 2/2
H 2/2
H 2/2
H 2/2
H 2/2
H 2/2
VR_MUTE
SHUNT
DEBG_PORT0
DEBG_PORT1
DEBG_PORT2
FSYNC_INT
FPGA_TX
FPGA_RX
FPGA_SCK
V3R3
GNDD
GREF2
V3R3REF2
STBY
TP2_YV
TP2_XV
LED_SEL0
LED_SEL1
LED_SEL2
LCD_SW
LED_CEB
LED_CEA
LEDD8
LEDD9
LEDD10
LEDD11
LEDD12
LEDD13
LEDD14
LEDD15
LED_SEL
SW_MAT
SW_MAT0
SW_MAT1
SW_MAT2
SW_MAT3
SW_MAT4
SW_MAT5
SW_MAT6
SW_SCAN0
SW_SCAN1
SW_SCAN2
SW_SCAN3
SW_SCAN4
SW_SCAN5
SW_SCAN6
SW_SCAN7
LEDD0
LEDD1
LEDD2
LEDD3
LEDD4
LEDD5
LEDD6
LEDD7
SUB_CPU_BUSY
SW_SCAN
LED_DATA
SUB_CPU_INT
X3001
VSS1186-A
IC3005
IC3004
IC3006
IC3007
TC7SH08FUS1
VCC
INB
INA
GND
OUTY

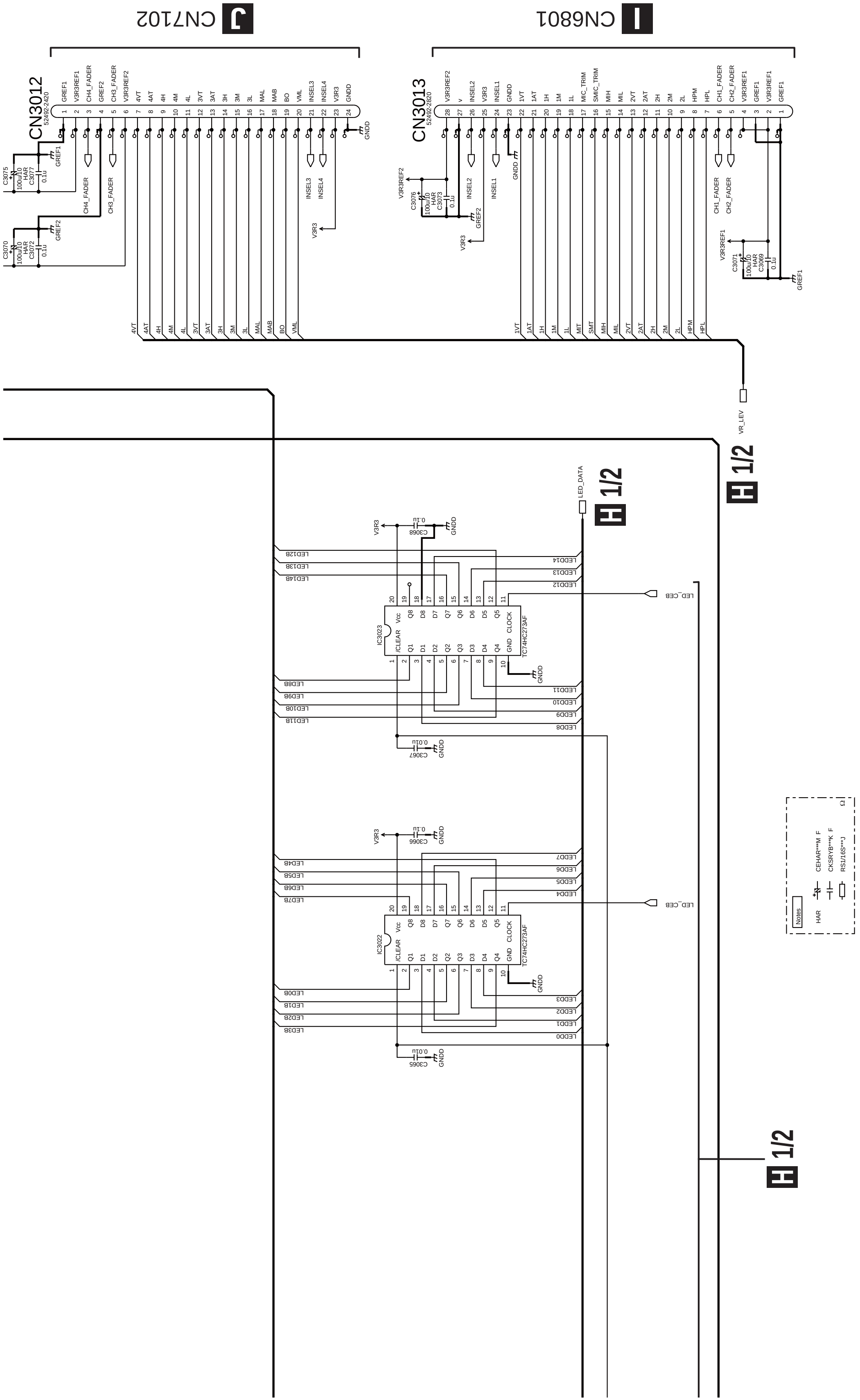
10.23 SCPU ASSY (2/2)


H 2/2
SCPU ASSY
(DWX2716) (1/2)
J CN7101
CN3011
52492-3620
SW4
SW5
SW6
SW7
SW_MAT0
SW_MAT1
SW_MAT2
SW_MAT3
SW_MAT4
SW_MAT5
SW_MAT6
LED00B
LED01B
LED02B
LED03B
LED04B
LED05B
LED06B
LED07B
LED08B
LED09B
LED010B
LED011B
LED012B
LED013B
LED014B
LED-6
LED-7
LED-8
LED-9
LED-10
GLED
VLED(+5V)
SW_SCAN4
SW_SCAN5
SW_SCAN6
SW_SCAN7
SW_SCAN
LED
VLED
C3078
0.1u
C3074
100u/10
HAR
GLED
CN3012
52492-2420
GREF1
V3R3REF1
CH4_FADER
GREF2
CH3_FADER
C3075
100u/10
HAR
C3077
0.1u
V3R3REF1
GREF2
C3070
100u/10
HAR
C3072
0.1u
V3R3REF2
H 1/2
LED0B
LED1B
LED2B
LED3B
LED4B
LED5B
LED6B
LED7B
LED8B
LED9B
LED10B
LED11B
LED12B
LED13B
LED14B
H 1/2
P CN6003
LCD_SW
DIM_DUTY
GNDD
T_LED15
T_LED5
T_LED4
T_LED3
T_LED2
T_LED1
T_LED0
LED-4
LED-3
GNDD
TAP_SW
EFFECT_ON
DEPTH
GNDD
SW_MAT2
SW_MAT5
SW_MAT0
SW_SCAN4
SW_SCAN3
GNDD
V3R3
TAP
EFF_ON/OFF
DEPTH
H 1/2
SW_MAT2
SW_MAT5
SW_MAT0
SW_SCAN4
SW_SCAN3
CN3010
VKN1428-A
V3R3
C3062
0.1u
C3061
100u/10
HAR
GNDD
SW_SCAN
H 1/2

Large size SCH diagram

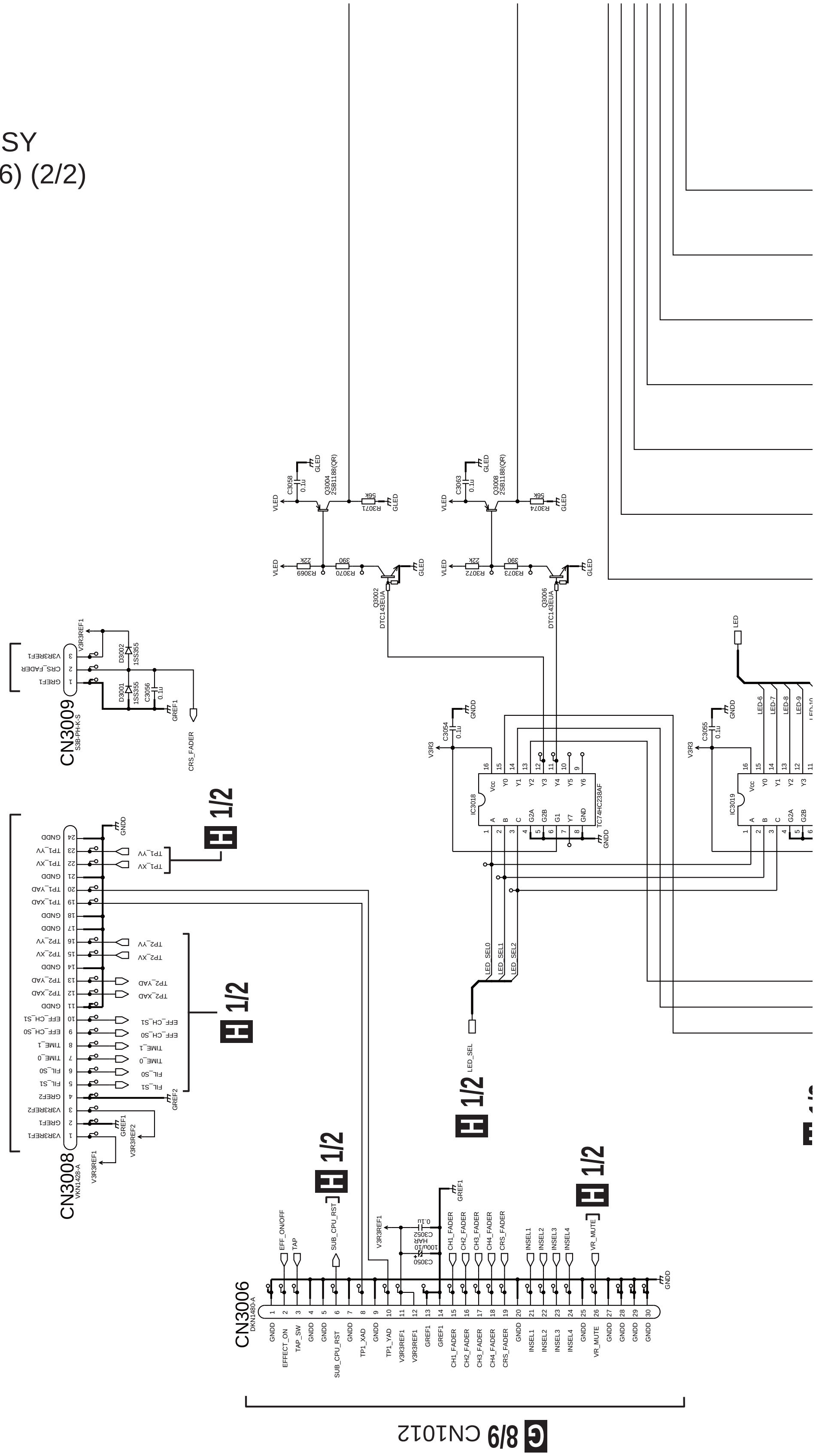


H 2/2

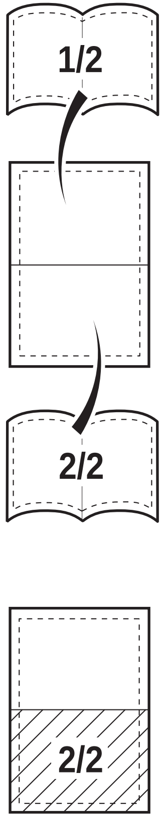

J CN7102
I CN6801
CN3012
52492-2420
CN3013
52492-2820
GREF1
V3R3REF1
CH4_FADER
GREF2
CH3_FADER
V3R3REF2
INSEL1
INSEL2
INSEL3
INSEL4
V3R3
GNDD
MIC_TRIM
SMIC_TRIM
CH1_FADER
CH2_FADER
C3070
C3071
C3072
C3073
C3075
C3076
C3077
C3069
100u/10
HAR
0.1u
VR_LEV
LED_DATA
LED_CEB
H 1/2
IC3023
IC3022
TC74HC273AF
/CLEAR
Vcc
CLOCK
GND
C3065
C3066
C3067
C3068
0.01u
LED0 … LED14
LED0B … LED14B
Notes
HAR
CEHAR***M F
CKSRYB***K F
RS1/16S***J

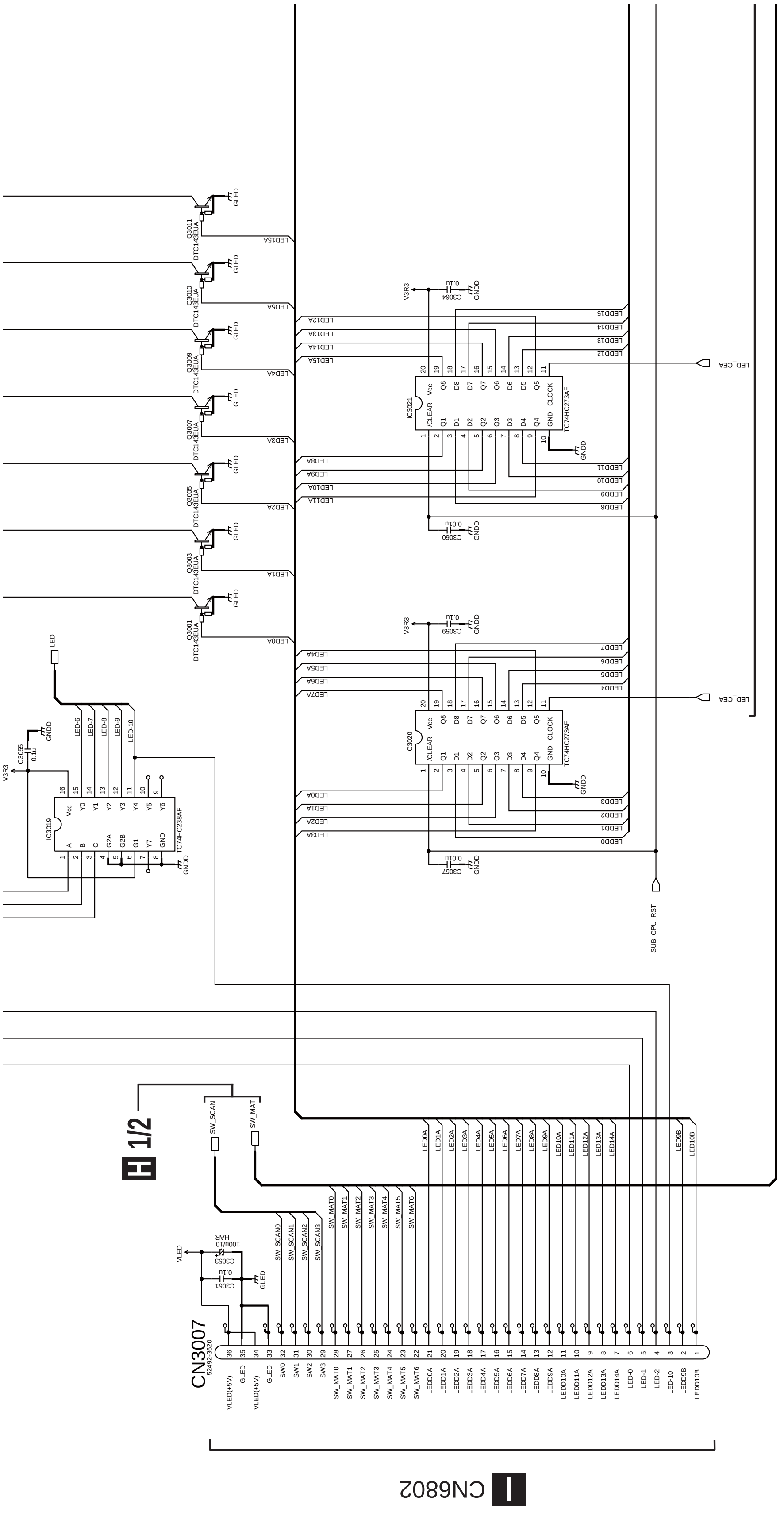
H 2/2

H 2/2 SCPU ASSY (DWX2716) (2/2)


T CN8751
CN3009
S3B-PH-K-S
V3R3REF1
CRS_FADER
GREF1
D3001 1SS355
D3002 1SS355
C3056 0.1u
P CN6002
CN3008
VKN1428-A
GNDD
TP1_VV
TP1_XV
TP1_YAD
TP1_XAD
TP2_VV
TP2_XV
TP2_YAD
TP2_XAD
EFF_CH_S1
EFF_CH_S0
TIME_1
TIME_0
FIL_S0
FIL_S1
GREF2
V3R3REF2
V3R3REF1
H 1/2
Q3002 DTC143EUA
Q3004 2SB1188(QR)
Q3006 DTC143EUA
Q3008 2SB1188(QR)
R3069 22K
R3070 390
R3071 56K
R3072 22K
R3073 390
R3074 56K
C3058 0.1u
C3063 0.1u
VLED
GLED
IC3018 TC74HC238AF
IC3019
C3054 0.1u
C3055 0.1u
V3R3
GNDD
LED_SEL0
LED_SEL1
LED_SEL2
LED_SEL
LED
LED-6
LED-7
LED-8
LED-9
CN3006
DKN1460-A
EFF_ON/OFF
TAP
SUB_CPU_RST
EFFECT_ON
TAP_SW
TP1_XAD
TP1_YAD
V3R3REF1
GREF1
C3050 100u/10 HAR
C3052 0.1u
CH1_FADER
CH2_FADER
CH3_FADER
CH4_FADER
CRS_FADER
INSEL1
INSEL2
INSEL3
INSEL4
VR_MUTE
G 8/9 CN1012

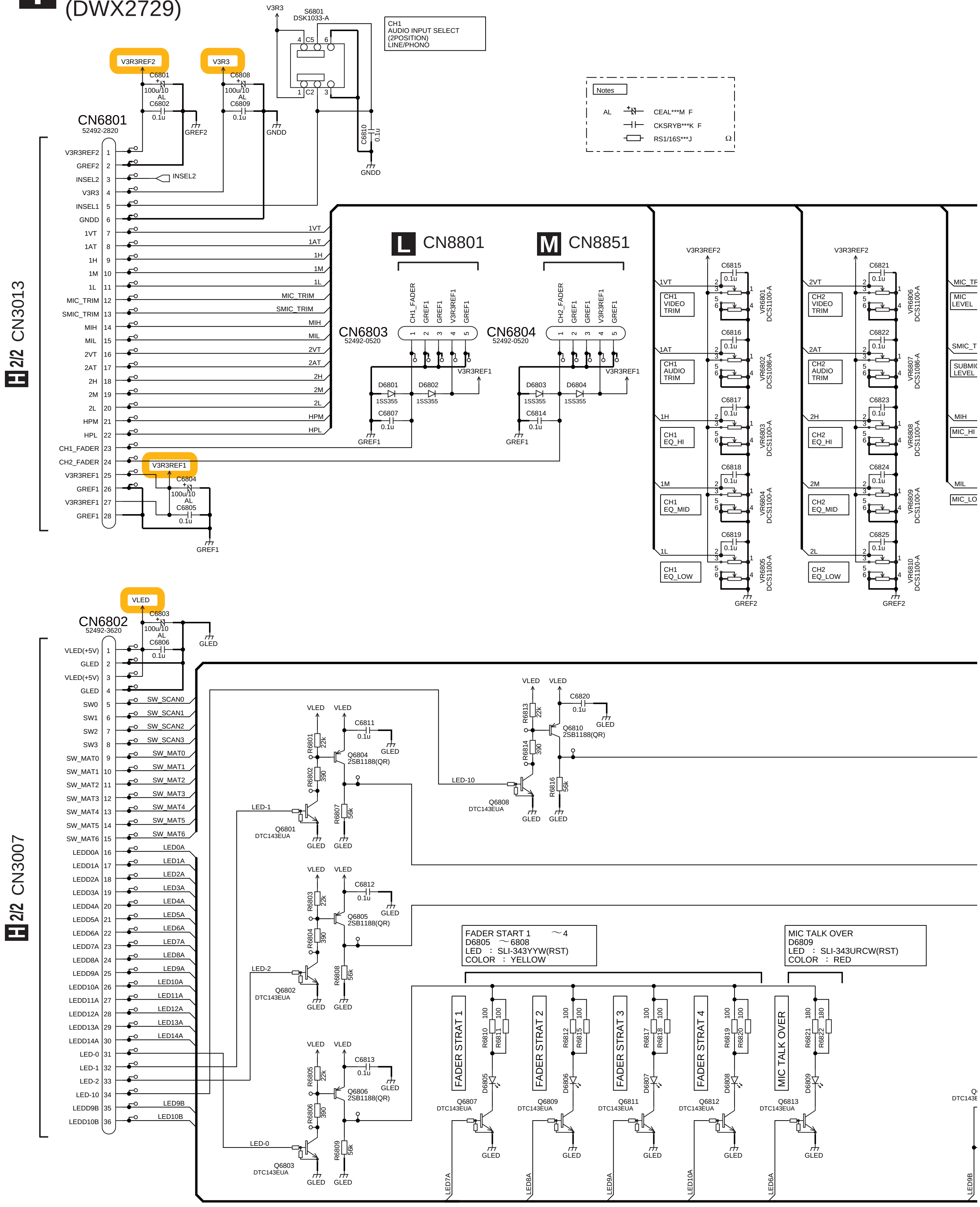
Large size SCH diagram




H 1/2
I CN6802
CN3007
52492-3620
IC3019
TC74HC238AF
IC3020
TC74HC273AF
IC3021
TC74HC273AF
Q3001 DTC143EUA
Q3003 DTC143EUA
Q3005 DTC143EUA
Q3007 DTC143EUA
Q3009 DTC143EUA
Q3010 DTC143EUA
Q3011 DTC143EUA
C3055 0.1u
C3057 0.01u
C3059 0.1u
C3060 0.01u
C3064 0.1u
C3051 0.1u
C3053 100u/10 HAR
V3R3
GNDD
GLED
VLED
LED
LED_CEA
SUB_CPU_RST
SW_SCAN
SW_MAT
SW_SCAN0
SW_SCAN1
SW_SCAN2
SW_SCAN3
SW_MAT0
SW_MAT1
SW_MAT2
SW_MAT3
SW_MAT4
SW_MAT5
SW_MAT6
LED-6
LED-7
LED-8
LED-9
LED-10
LEDD0
LEDD1
LEDD2
LEDD3
LEDD4
LEDD5
LEDD6
LEDD7
LEDD8
LEDD9
LEDD10
LEDD11
LEDD12
LEDD13
LEDD14
LEDD15
LED0A
LED1A
LED2A
LED3A
LED4A
LED5A
LED6A
LED7A
LED8A
LED9A
LED10A
LED11A
LED12A
LED13A
LED14A
LED15A
LED9B
LED10B
VLED(+5V)
GLED
VLED(+5V)
GLED
SW0
SW1
SW2
SW3
SW_MAT0
SW_MAT1
SW_MAT2
SW_MAT3
SW_MAT4
SW_MAT5
SW_MAT6
LEDD0A
LEDD1A
LEDD2A
LEDD3A
LEDD4A
LEDD5A
LEDD6A
LEDD7A
LEDD8A
LEDD9A
LEDD10A
LEDD11A
LEDD12A
LEDD13A
LEDD14A
LED-0
LED-1
LED-2
LED-10
LEDD9B
LEDD10B

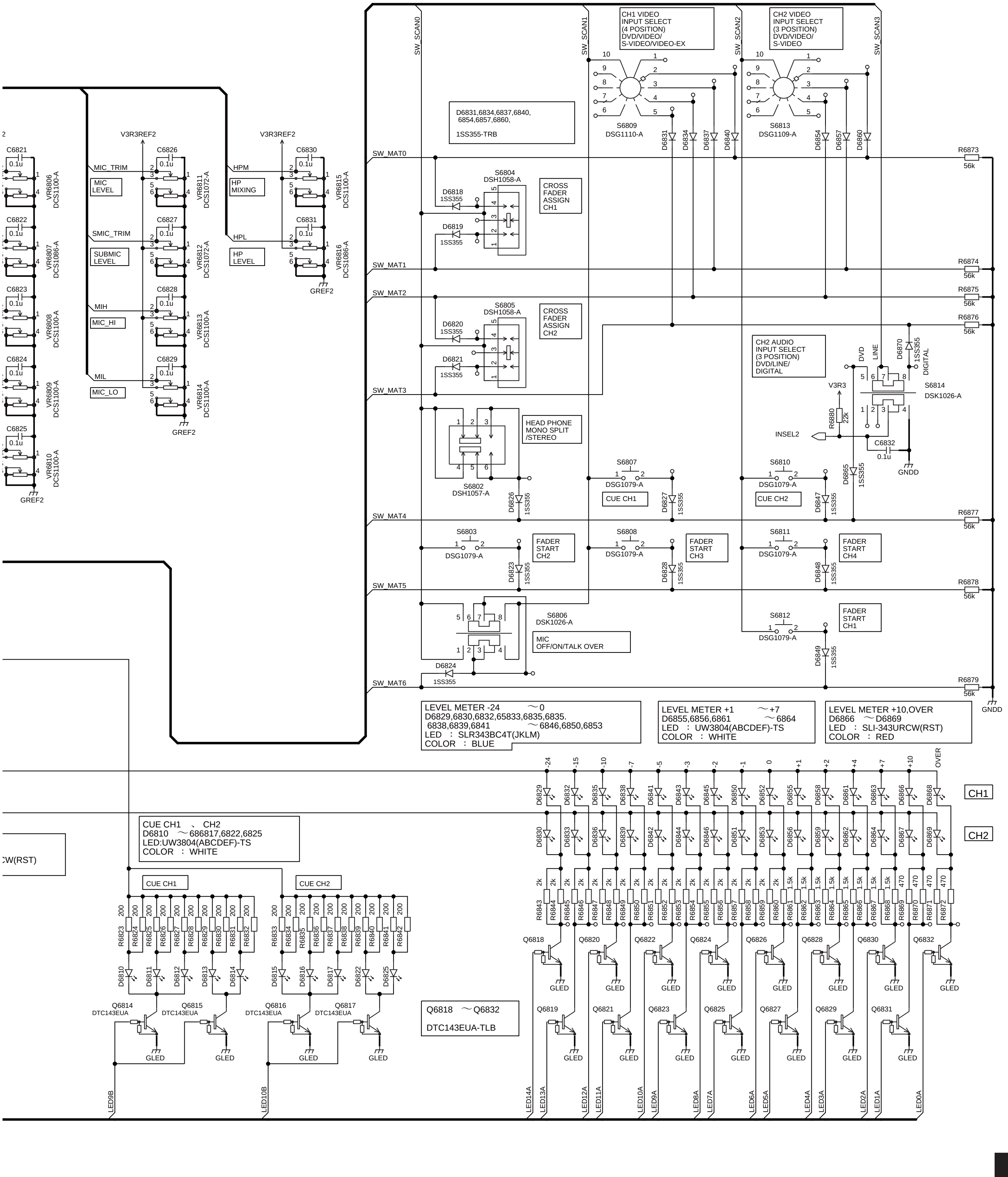
10.24 CTL1 ASSY

I CTL1 ASSY
(DWX2729)


A
B
C
D
E
F
V3R3
S6801
DSK1033-A
C5
C2
CH1
AUDIO INPUT SELECT
(2POSITION)
LINE/PHONO
C6810
0.1u
GNDD
Notes
AL
CEAL***M F
CKSRYB***K F
RS1/16S***J
Ω
V3R3REF2
V3R3
C6801
100u/10
AL
C6802
0.1u
C6808
100u/10
AL
C6809
0.1u
GREF2
GNDD
CN6801
52492-2820
V3R3REF2 1
GREF2 2
INSEL2 3
V3R3 4
INSEL1 5
GNDD 6
1VT 7
1AT 8
1H 9
1M 10
1L 11
MIC_TRIM 12
SMIC_TRIM 13
MIH 14
MIL 15
2VT 16
2AT 17
2H 18
2M 19
2L 20
HPM 21
HPL 22
CH1_FADER 23
CH2_FADER 24
V3R3REF1 25
GREF1 26
V3R3REF1 27
GREF1 28
INSEL2
H 2/2 CN3013
V3R3REF1
C6804
100u/10
AL
C6805
0.1u
GREF1
L CN8801
M CN8851
CH1_FADER
GREF1
GREF1
V3R3REF1
GREF1
CH2_FADER
CN6803
52492-0520
CN6804
52492-0520
D6801
D6802
1SS355
D6803
D6804
C6807
C6814
0.1u
V3R3REF1
V3R3REF2
C6815
C6816
C6817
C6818
C6819
C6821
C6822
C6823
C6824
C6825
0.1u
CH1 VIDEO TRIM
CH1 AUDIO TRIM
CH1 EQ_HI
CH1 EQ_MID
CH1 EQ_LOW
CH2 VIDEO TRIM
CH2 AUDIO TRIM
CH2 EQ_HI
CH2 EQ_MID
CH2 EQ_LOW
VR6801 DCS1100-A
VR6802 DCS1086-A
VR6803 DCS1100-A
VR6804 DCS1100-A
VR6805 DCS1100-A
VR6806 DCS1100-A
VR6807 DCS1086-A
VR6808 DCS1100-A
VR6809 DCS1100-A
VR6810 DCS1100-A
MIC_TR
MIC LEVEL
SMIC_T
SUBMIC LEVEL
MIH
MIC_HI
MIL
MIC_LO
VLED
C6803
100u/10
AL
C6806
0.1u
GLED
CN6802
52492-3620
VLED(+5V) 1
GLED 2
VLED(+5V) 3
GLED 4
SW0 5
SW1 6
SW2 7
SW3 8
SW_MAT0 9
SW_MAT1 10
SW_MAT2 11
SW_MAT3 12
SW_MAT4 13
SW_MAT5 14
SW_MAT6 15
LEDD0A 16
LEDD1A 17
LEDD2A 18
LEDD3A 19
LEDD4A 20
LEDD5A 21
LEDD6A 22
LEDD7A 23
LEDD8A 24
LEDD9A 25
LEDD10A 26
LEDD11A 27
LEDD12A 28
LEDD13A 29
LEDD14A 30
LED-0 31
LED-1 32
LED-2 33
LED-10 34
LEDD9B 35
LEDD10B 36
H 2/2 CN3007
SW_SCAN0
SW_SCAN1
SW_SCAN2
SW_SCAN3
SW_MAT0
SW_MAT1
SW_MAT2
SW_MAT3
SW_MAT4
SW_MAT5
SW_MAT6
LED0A
LED1A
LED2A
LED3A
LED4A
LED5A
LED6A
LED7A
LED8A
LED9A
LED10A
LED11A
LED12A
LED13A
LED14A
LED9B
LED10B
R6801 22k
R6802 390
R6807 56k
Q6804 2SB1188(QR)
C6811 0.1u
Q6801 DTC143EUA
LED-1
R6803 22k
R6804 390
R6808 56k
Q6805 2SB1188(QR)
C6812 0.1u
Q6802 DTC143EUA
LED-2
R6805 22k
R6806 390
R6809 56k
Q6806 2SB1188(QR)
C6813 0.1u
Q6803 DTC143EUA
LED-0
R6813 22k
R6814 390
R6816 56k
Q6810 2SB1188(QR)
C6820 0.1u
Q6808 DTC143EUA
LED-10
FADER STRAT 1
FADER STRAT 2
FADER STRAT 3
FADER STRAT 4
MIC TALK OVER
R6810 100
R6811 100
R6812 100
R6815 100
R6817 100
R6818 100
R6819 100
R6820 100
R6821 180
R6822 180
D6805
D6806
D6807
D6808
D6809
Q6807 DTC143EUA
Q6809 DTC143EUA
Q6811 DTC143EUA
Q6812 DTC143EUA
Q6813 DTC143EUA
LED7A
LED8A
LED9A
LED10A
LED6A
LED9B
DTC143E

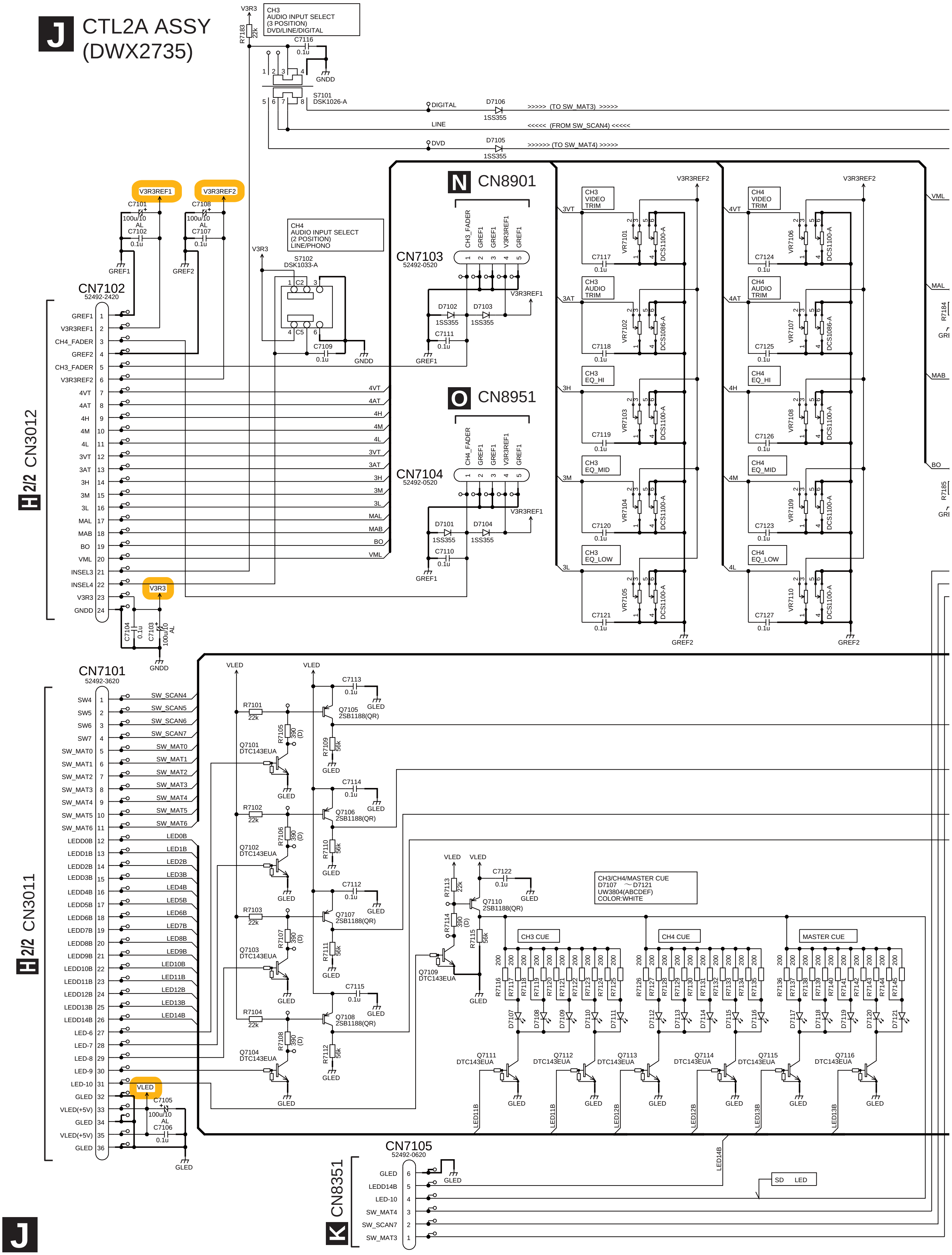
FADER START 1 ～4
D6805 ～6808
LED : SLI-343YYW(RST)
COLOR : YELLOW

MIC TALK OVER
D6809
LED : SLI-343URCW(RST)
COLOR : RED


SW_SCAN0
SW_SCAN1
SW_SCAN2
SW_SCAN3
CH1 VIDEO
INPUT SELECT
(4 POSITION)
DVD/VIDEO/
S-VIDEO/VIDEO-EX
CH2 VIDEO
INPUT SELECT
(3 POSITION)
DVD/VIDEO/
S-VIDEO
S6809
DSG1110-A
S6813
DSG1109-A
D6831,6834,6837,6840,
6854,6857,6860,
1SS355-TRB
D6831
D6834
D6837
D6840
D6854
D6857
D6860
SW_MAT0
SW_MAT1
SW_MAT2
SW_MAT3
SW_MAT4
SW_MAT5
SW_MAT6
R6873 56k
R6874 56k
R6875 56k
R6876 56k
R6877 56k
R6878 56k
R6879 56k
GNDD
S6804
DSH1058-A
CROSS
FADER
ASSIGN
CH1
D6818 1SS355
D6819 1SS355
S6805
DSH1058-A
CROSS
FADER
ASSIGN
CH2
D6820 1SS355
D6821 1SS355
CH2 AUDIO
INPUT SELECT
(3 POSITION)
DVD/LINE/
DIGITAL
DVD
LINE
DIGITAL
D6870 1SS355
S6814
DSK1026-A
V3R3
R6880 22k
INSEL2
C6832 0.1u
GNDD
D6865 1SS355
HEAD PHONE
MONO SPLIT
/STEREO
S6802
DSH1057-A
D6826 1SS355
S6807
DSG1079-A
CUE CH1
D6827 1SS355
S6810
DSG1079-A
CUE CH2
D6847 1SS355
S6803
DSG1079-A
FADER
START
CH2
D6823 1SS355
S6808
DSG1079-A
FADER
START
CH3
D6828 1SS355
S6811
DSG1079-A
FADER
START
CH4
D6848 1SS355
S6806
DSK1026-A
MIC
OFF/ON/TALK OVER
S6812
DSG1079-A
FADER
START
CH1
D6849 1SS355
D6824 1SS355
C6821 0.1u
C6822 0.1u
C6823 0.1u
C6824 0.1u
C6825 0.1u
VR6806 DCS1100-A
VR6807 DCS1086-A
VR6808 DCS1100-A
VR6809 DCS1100-A
VR6810 DCS1100-A
GREF2
V3R3REF2
MIC_TRIM
MIC
LEVEL
SMIC_TRIM
SUBMIC
LEVEL
MIH
MIC_HI
MIL
MIC_LO
C6826 0.1u
C6827 0.1u
C6828 0.1u
C6829 0.1u
VR6811 DCS1072-A
VR6812 DCS1072-A
VR6813 DCS1100-A
VR6814 DCS1100-A
HPM
HP
MIXING
HPL
HP
LEVEL
C6830 0.1u
C6831 0.1u
VR6815 DCS1100-A
VR6816 DCS1086-A
LEVEL METER -24 ～0
D6829,6830,6832,65833,6835,6835.
6838,6839,6841 ～6846,6850,6853
LED : SLR343BC4T(JKLM)
COLOR : BLUE
LEVEL METER +1 ～+7
D6855,6856,6861 ～6864
LED : UW3804(ABCDEF)-TS
COLOR : WHITE
LEVEL METER +10,OVER
D6866 ～D6869
LED : SLI-343URCW(RST)
COLOR : RED
-24
-15
-10
-7
-5
-3
-2
-1
0
+1
+2
+4
+7
+10
OVER
CH1
CH2
D6829 D6832 D6835 D6838 D6841 D6843 D6845 D6850 D6852 D6855 D6858 D6861 D6863 D6866 D6868
D6830 D6833 D6836 D6839 D6842 D6844 D6846 D6851 D6853 D6856 D6859 D6862 D6864 D6867 D6869
R6843 2k
R6844 2k
R6845 2k
R6846 2k
R6847 2k
R6848 2k
R6849 2k
R6850 2k
R6851 2k
R6852 2k
R6853 2k
R6854 2k
R6855 2k
R6856 2k
R6857 2k
R6858 2k
R6859 2k
R6860 2k
R6861 1.5k
R6862 1.5k
R6863 1.5k
R6864 1.5k
R6865 1.5k
R6866 1.5k
R6867 1.5k
R6868 1.5k
R6869 470
R6870 470
R6871 470
R6872 470
Q6818 Q6820 Q6822 Q6824 Q6826 Q6828 Q6830 Q6832
Q6819 Q6821 Q6823 Q6825 Q6827 Q6829 Q6831
GLED
Q6818 ～Q6832
DTC143EUA-TLB
CUE CH1 、 CH2
D6810 ～686817,6822,6825
LED:UW3804(ABCDEF)-TS
COLOR : WHITE
CW(RST)
CUE CH1
CUE CH2
R6823 R6824 R6825 R6826 R6827 R6828 R6830 R6831 R6832 200
R6833 R6834 R6835 R6836 R6837 R6838 R6839 R6840 R6841 R6842 200
D6810 D6811 D6812 D6813 D6814
D6815 D6816 D6817 D6822 D6825
Q6814 DTC143EUA
Q6815 DTC143EUA
Q6816 DTC143EUA
Q6817 DTC143EUA
LED9B
LED10B
LED14A LED13A LED12A LED11A LED10A LED9A LED8A LED7A LED6A LED5A LED4A LED3A LED2A LED1A LED0A

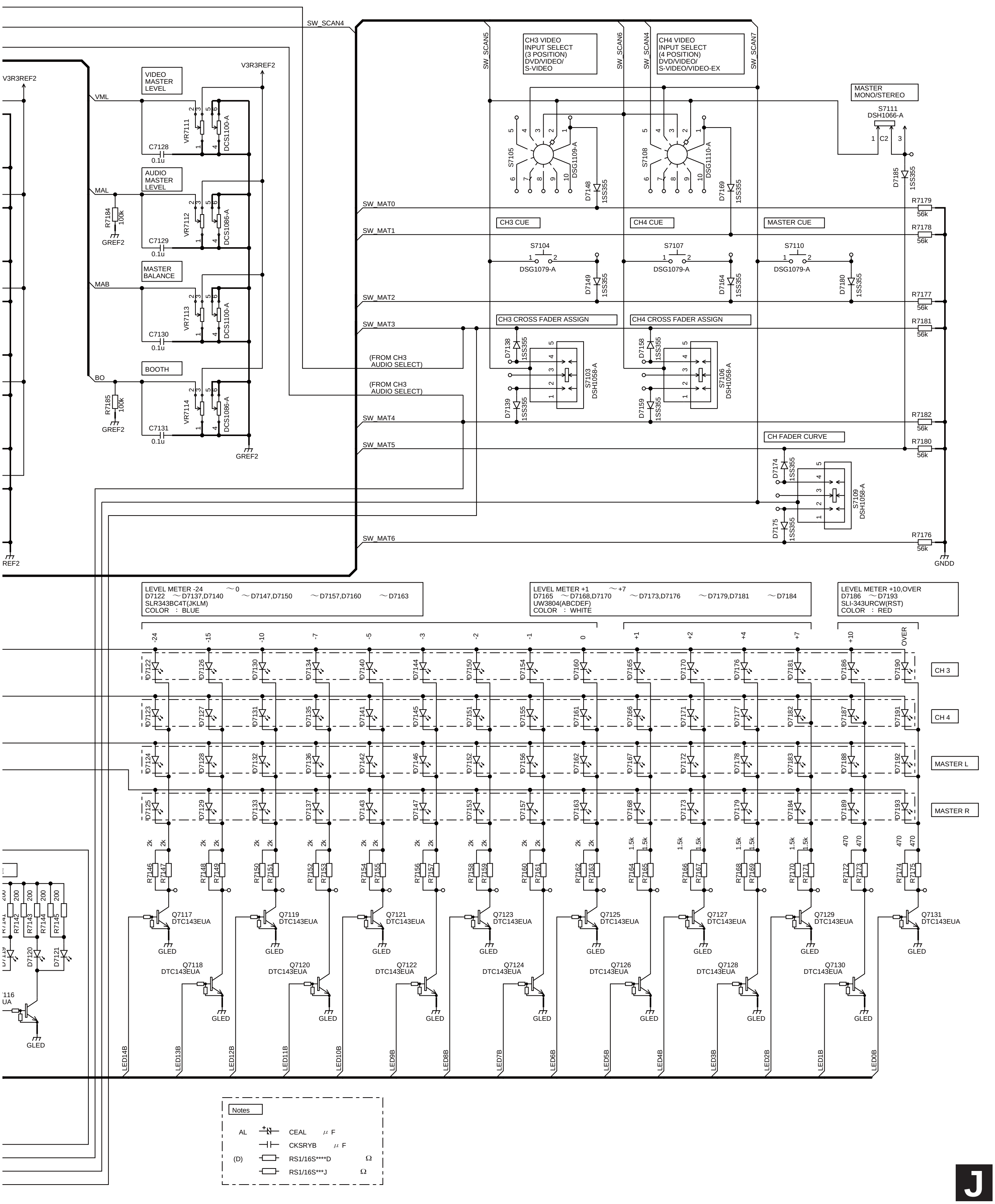
10.25 CTL2A ASSY

J CTL2A ASSY
(DWX2735)



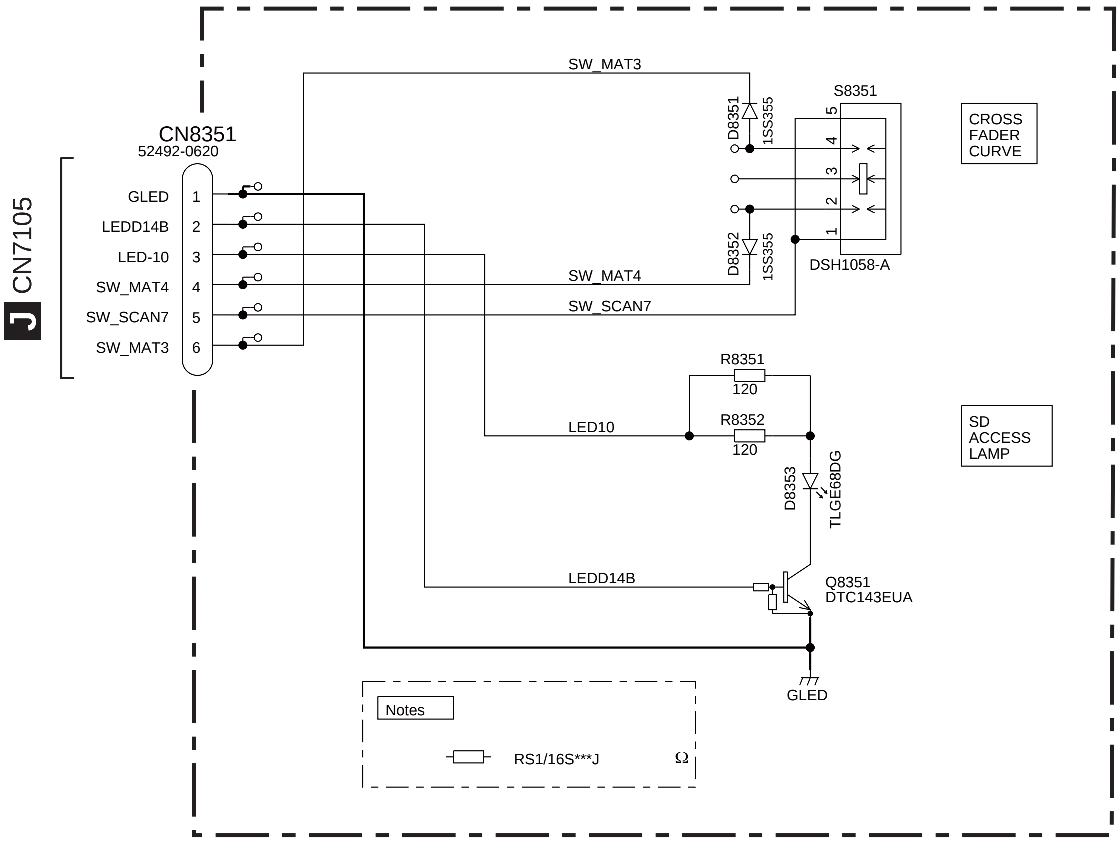
CH3 AUDIO INPUT SELECT (3 POSITION) DVD/LINE/DIGITAL
V3R3
R7183 22k
C7116 0.1u
GNDD
S7101 DSK1026-A
DIGITAL
D7106 1SS355
>>>>> (TO SW_MAT3) >>>>>
LINE
<<<<< (FROM SW_SCAN4) <<<<<
DVD
D7105 1SS355
>>>>> (TO SW_MAT4) >>>>>
V3R3REF1
V3R3REF2
C7101 100u/10 AL
C7102 0.1u
C7108 100u/10 AL
C7107 0.1u
GREF1
GREF2
CH4 AUDIO INPUT SELECT (2 POSITION) LINE/PHONO
S7102 DSK1033-A
C7109 0.1u
N CN8901
CN7103 52492-0520
CH3_FADER
GREF1
GREF1
V3R3REF1
GREF1
D7102 1SS355
D7103 1SS355
C7111 0.1u
O CN8951
CN7104 52492-0520
CH4_FADER
D7101 1SS355
D7104 1SS355
C7110 0.1u
CN7102 52492-2420
H 2/2 CN3012
GREF1 1
V3R3REF1 2
CH4_FADER 3
GREF2 4
CH3_FADER 5
V3R3REF2 6
4VT 7
4AT 8
4H 9
4M 10
4L 11
3VT 12
3AT 13
3H 14
3M 15
3L 16
MAL 17
MAB 18
BO 19
VML 20
INSEL3 21
INSEL4 22
V3R3 23
GNDD 24
C7104 0.1u
C7103 100u/10 AL
CH3 VIDEO TRIM
VR7101 DCS1100-A C7117 0.1u
CH3 AUDIO TRIM
VR7102 DCS1086-A C7118 0.1u
CH3 EQ_HI
VR7103 DCS1100-A C7119 0.1u
CH3 EQ_MID
VR7104 DCS1100-A C7120 0.1u
CH3 EQ_LOW
VR7105 DCS1100-A C7121 0.1u
CH4 VIDEO TRIM
VR7106 DCS1100-A C7124 0.1u
CH4 AUDIO TRIM
VR7107 DCS1086-A C7125 0.1u
CH4 EQ_HI
VR7108 DCS1100-A C7126 0.1u
CH4 EQ_MID
VR7109 DCS1100-A C7123 0.1u
CH4 EQ_LOW
VR7110 DCS1100-A C7127 0.1u
R7184
R7185
CN7101 52492-3620
H 2/2 CN3011
SW4 1
SW5 2
SW6 3
SW7 4
SW_MAT0 5
SW_MAT1 6
SW_MAT2 7
SW_MAT3 8
SW_MAT4 9
SW_MAT5 10
SW_MAT6 11
LEDD0B 12
LEDD1B 13
LEDD2B 14
LEDD3B 15
LEDD4B 16
LEDD5B 17
LEDD6B 18
LEDD7B 19
LEDD8B 20
LEDD9B 21
LEDD10B 22
LEDD11B 23
LEDD12B 24
LEDD13B 25
LEDD14B 26
LED-6 27
LED-7 28
LED-8 29
LED-9 30
LED-10 31
GLED 32
VLED(+5V) 33
GLED 34
VLED(+5V) 35
GLED 36
C7105 100u/10 AL
C7106 0.1u
VLED
R7101 22k
R7105 390 (D)
Q7101 DTC143EUA
Q7105 2SB1188(QR)
R7109 56k
C7113 0.1u
R7102 22k
R7106 390 (D)
Q7102 DTC143EUA
Q7106 2SB1188(QR)
R7110 56k
C7114 0.1u
R7103 22k
R7107 390 (D)
Q7103 DTC143EUA
Q7107 2SB1188(QR)
R7111 56k
C7112 0.1u
R7104 22k
R7108 390 (D)
Q7104 DTC143EUA
Q7108 2SB1188(QR)
R7112 56k
C7115 0.1u
R7113 22k
R7114 390 (D)
R7115 56k
Q7109 DTC143EUA
Q7110 2SB1188(QR)
C7122 0.1u
CH3/CH4/MASTER CUE D7107 ~ D7121 UW3804(ABCDEF) COLOR:WHITE
CH3 CUE
CH4 CUE
MASTER CUE
R7116–R7145 200
D7107–D7121
Q7111 DTC143EUA
Q7112 DTC143EUA
Q7113 DTC143EUA
Q7114 DTC143EUA
Q7115 DTC143EUA
Q7116 DTC143EUA
LED11B
LED12B
LED13B
LED14B
CN7105 52492-0620
K CN8351
GLED 6
LEDD14B 5
LED-10 4
SW_MAT4 3
SW_SCAN7 2
SW_MAT3 1
SD LED

J


SW_SCAN4
SW_SCAN5
SW_SCAN6
SW_SCAN4
SW_SCAN7
CH3 VIDEO INPUT SELECT (3 POSITION) DVD/VIDEO/ S-VIDEO
CH4 VIDEO INPUT SELECT (4 POSITION) DVD/VIDEO/ S-VIDEO/VIDEO-EX
MASTER MONO/STEREO
S7111 DSH1066-A
S7105 DSG1109-A
S7108 DSG1110-A
V3R3REF2
VIDEO MASTER LEVEL
AUDIO MASTER LEVEL
MASTER BALANCE
BOOTH
VML
MAL
MAB
BO
VR7111 DCS1100-A
VR7112 DCS1086-A
VR7113 DCS1100-A
VR7114 DCS1086-A
C7128 0.1u
C7129 0.1u
C7130 0.1u
C7131 0.1u
R7184 100k
R7185 100k
GREF2
SW_MAT0
SW_MAT1
SW_MAT2
SW_MAT3
SW_MAT4
SW_MAT5
SW_MAT6
CH3 CUE
CH4 CUE
MASTER CUE
S7104 DSG1079-A
S7107 DSG1079-A
S7110 DSG1079-A
D7148 1SS355
D7169 1SS355
D7185 1SS355
D7149 1SS355
D7164 1SS355
D7180 1SS355
R7179 56k
R7178 56k
R7177 56k
R7181 56k
R7182 56k
R7180 56k
R7176 56k
CH3 CROSS FADER ASSIGN
CH4 CROSS FADER ASSIGN
(FROM CH3 AUDIO SELECT)
(FROM CH3 AUDIO SELECT)
D7138 1SS355
D7139 1SS355
D7158 1SS355
D7159 1SS355
S7103 DSH1058-A
S7106 DSH1058-A
CH FADER CURVE
D7174 1SS355
D7175 1SS355
S7109 DSH1058-A
GNDD
REF2
LEVEL METER -24 ~ 0
D7122 ~ D7137,D7140 ~ D7147,D7150 ~ D7157,D7160 ~ D7163
SLR343BC4T(JKLM)
COLOR : BLUE
LEVEL METER +1 ~ +7
D7165 ~ D7168,D7170 ~ D7173,D7176 ~ D7179,D7181 ~ D7184
UW3804(ABCDEF)
COLOR : WHITE
LEVEL METER +10,OVER
D7186 ~ D7193
SLI-343URCW(RST)
COLOR : RED
-24 -15 -10 -7 -5 -3 -2 -1 0 +1 +2 +4 +7 +10 OVER
CH 3
CH 4
MASTER L
MASTER R
D7122 D7126 D7130 D7134 D7140 D7144 D7150 D7154 D7160 D7165 D7170 D7176 D7181 D7186 D7190
D7123 D7127 D7131 D7135 D7141 D7145 D7151 D7155 D7161 D7166 D7171 D7177 D7182 D7187 D7191
D7124 D7128 D7132 D7136 D7142 D7146 D7152 D7156 D7162 D7167 D7172 D7178 D7183 D7188 D7192
D7125 D7129 D7133 D7137 D7143 D7147 D7153 D7157 D7163 D7168 D7173 D7179 D7184 D7189 D7193
R7146 R7147 R7148 R7149 R7150 R7151 R7152 R7153 R7154 R7155 R7156 R7157 R7158 R7159 R7160 R7161 R7162 R7163 2k
R7164 R7165 R7166 R7167 R7168 R7169 R7170 R7171 1.5k
R7172 R7173 R7174 R7175 470
R7141 R7142 R7143 R7144 R7145 200
D7119 D7120 D7121
Q7116 UA
Q7117 DTC143EUA
Q7119 DTC143EUA
Q7121 DTC143EUA
Q7123 DTC143EUA
Q7125 DTC143EUA
Q7127 DTC143EUA
Q7129 DTC143EUA
Q7131 DTC143EUA
Q7118 DTC143EUA
Q7120 DTC143EUA
Q7122 DTC143EUA
Q7124 DTC143EUA
Q7126 DTC143EUA
Q7128 DTC143EUA
Q7130 DTC143EUA
GLED
LED14B LED13B LED12B LED11B LED10B LED9B LED8B LED7B LED6B LED5B LED4B LED3B LED2B LED1B LED0B
Notes
AL CEAL μF
CKSRYB μF
(D) RS1/16S****D Ω
RS1/16S***J Ω

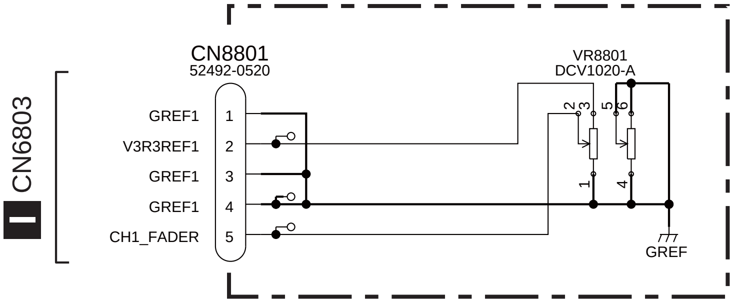
10.26 CTL2B, CFD1, CFD2, CFD3 and CFD4 ASSYS

K CTL2B ASSY
(DWX2736)



J CN7105
CN8351
52492-0620
GLED 1
LEDD14B 2
LED-10 3
SW_MAT4 4
SW_SCAN7 5
SW_MAT3 6
SW_MAT3
SW_MAT4
SW_SCAN7
D8351
1SS355
D8352
1SS355
S8351
DSH1058-A
5
4
3
2
1
CROSS FADER CURVE
R8351
120
R8352
120
LED10
D8353
TLGE68DG
SD ACCESS LAMP
LEDD14B
Q8351
DTC143EUA
GLED
Notes
RS1/16S***J
Ω

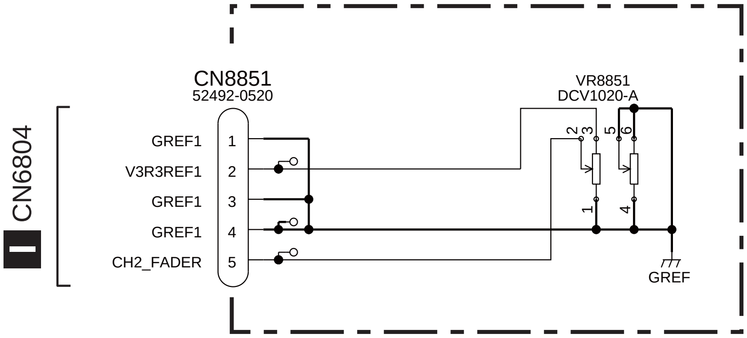
L CFD1 ASSY
(DWX2740)



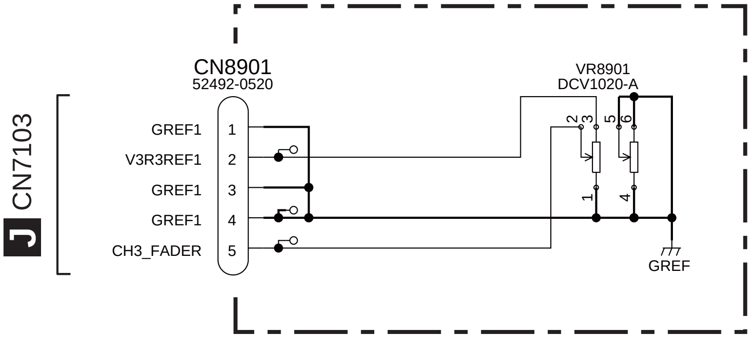
I CN6803
CN8801
52492-0520
GREF1 1
V3R3REF1 2
GREF1 3
GREF1 4
CH1_FADER 5
VR8801
DCV1020-A
2
3
5
6
1
4
GREF

K L

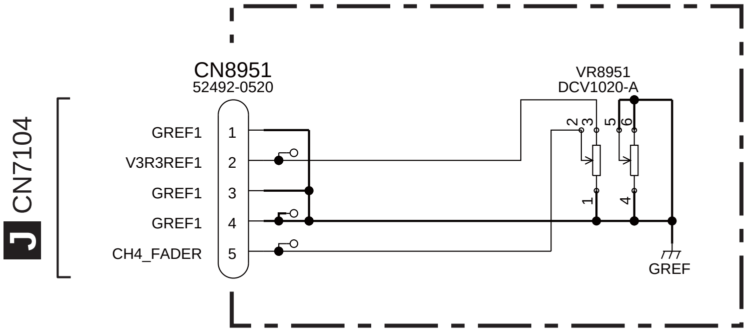
M CFD2 ASSY (DWX2741)


CN6804
I
CN8851
52492-0520
GREF1 1
V3R3REF1 2
GREF1 3
GREF1 4
CH2_FADER 5
VR8851
DCV1020-A
GREF

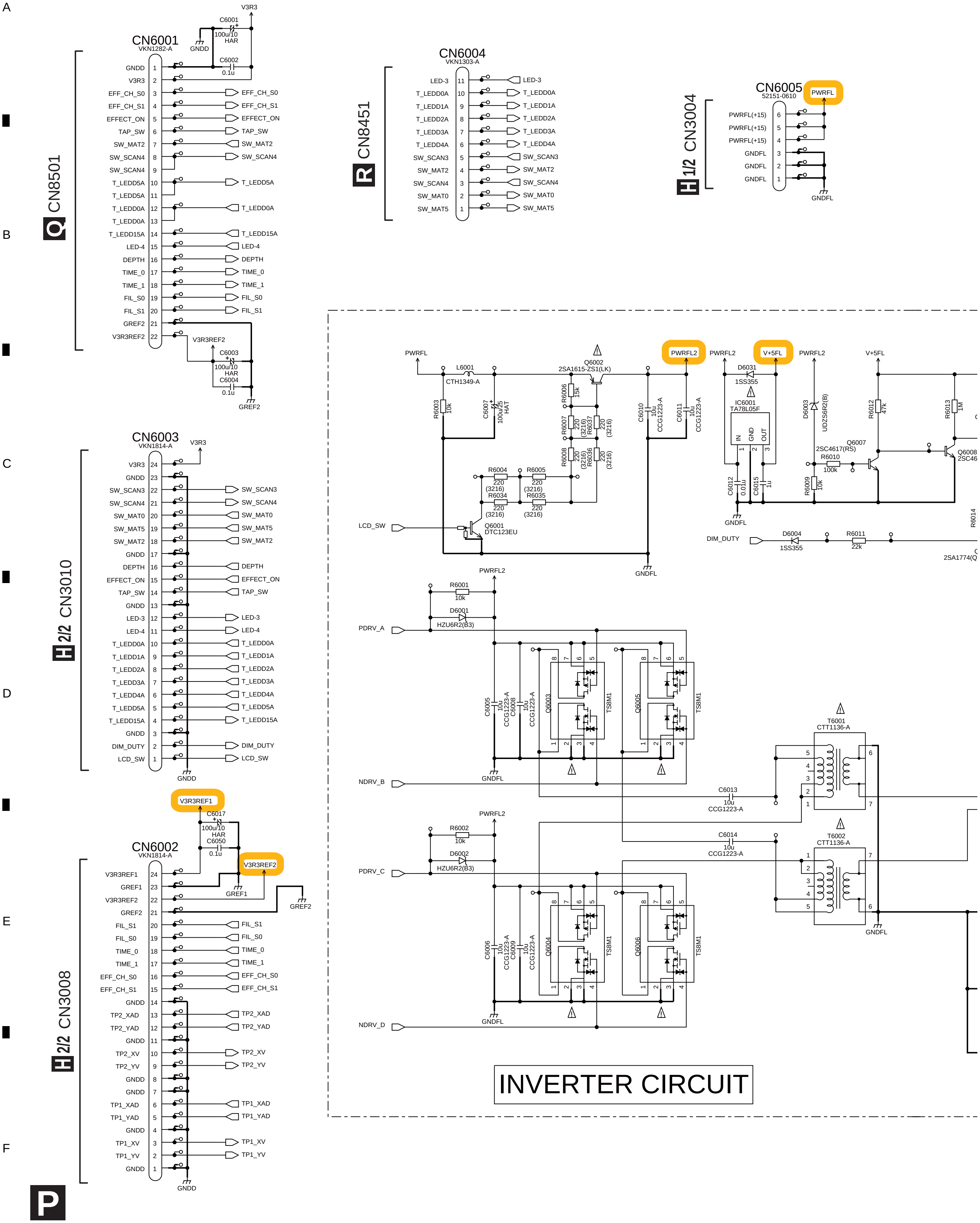
N CFD3 ASSY (DWX2742)


CN7103
J
CN8901
52492-0520
GREF1 1
V3R3REF1 2
GREF1 3
GREF1 4
CH3_FADER 5
VR8901
DCV1020-A
GREF

O CFD4 ASSY (DWX2743)

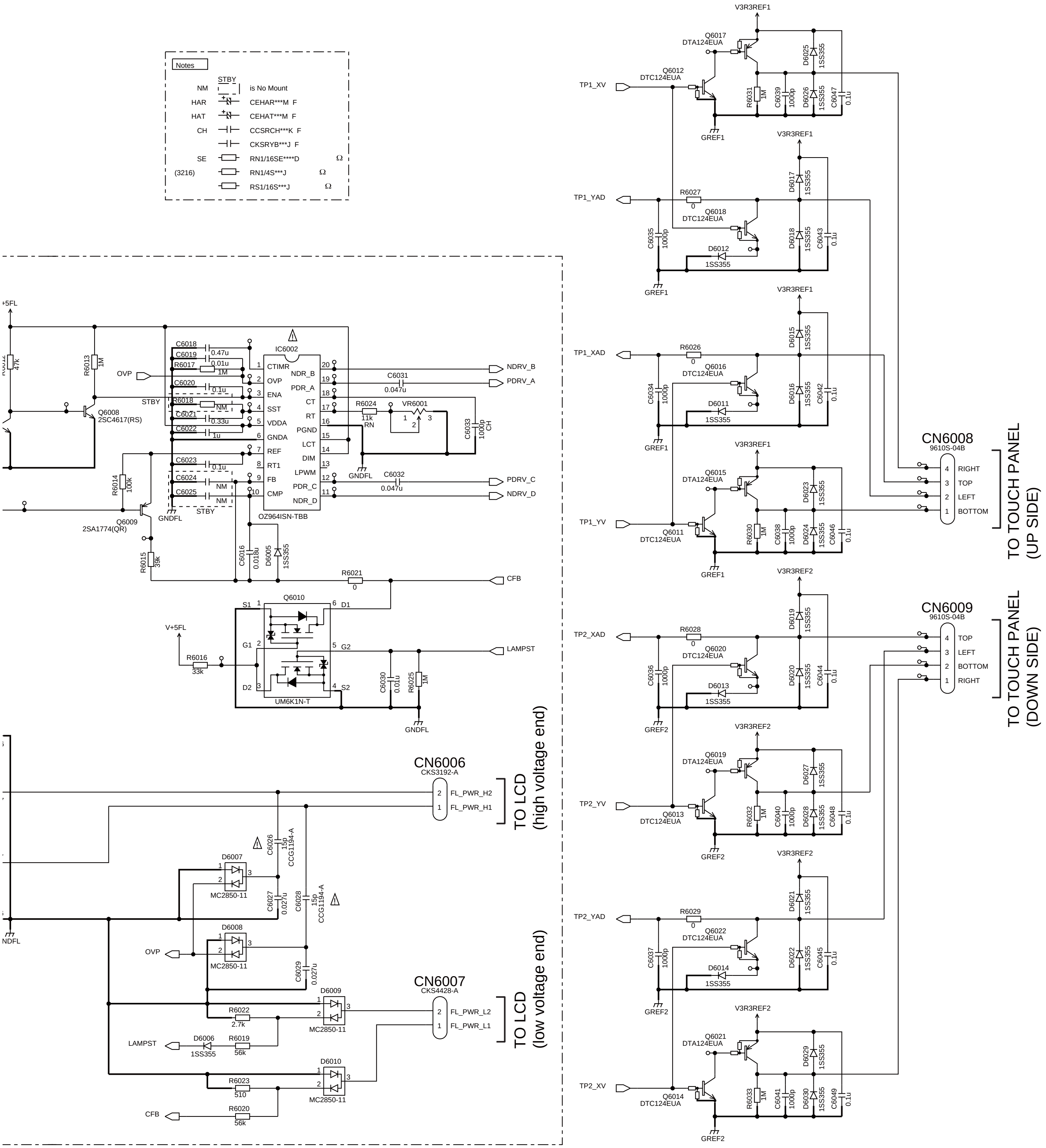

CN7104
J
CN8951
52492-0520
GREF1 1
V3R3REF1 2
GREF1 3
GREF1 4
CH4_FADER 5
VR8951
DCV1020-A
GREF

10.27 INVT ASSY



CN6001
VKN1282-A
Q CN8501
V3R3
C6001
100u/10
HAR
GNDD
C6002
0.1u
GNDD 1
V3R3 2
EFF_CH_S0 3
EFF_CH_S1 4
EFFECT_ON 5
TAP_SW 6
SW_MAT2 7
SW_SCAN4 8
SW_SCAN4 9
T_LEDD5A 10
T_LEDD5A 11
T_LEDD0A 12
T_LEDD0A 13
T_LEDD15A 14
LED-4 15
DEPTH 16
TIME_0 17
TIME_1 18
FIL_S0 19
FIL_S1 20
GREF2 21
V3R3REF2 22
V3R3REF2
C6003
100u/10
HAR
C6004
0.1u
GREF2
CN6004
VKN1303-A
R CN8451
LED-3 11
T_LEDD0A 10
T_LEDD1A 9
T_LEDD2A 8
T_LEDD3A 7
T_LEDD4A 6
SW_SCAN3 5
SW_MAT2 4
SW_SCAN4 3
SW_MAT0 2
SW_MAT5 1
CN6005
52151-0610
PWRFL
H 1/2 CN3004
PWRFL(+15) 6
PWRFL(+15) 5
PWRFL(+15) 4
GNDFL 3
GNDFL 2
GNDFL 1
GNDFL
CN6003
VKN1814-A
H 2/2 CN3010
V3R3 24
GNDD 23
SW_SCAN3 22
SW_SCAN4 21
SW_MAT0 20
SW_MAT5 19
SW_MAT2 18
GNDD 17
DEPTH 16
EFFECT_ON 15
TAP_SW 14
GNDD 13
LED-3 12
LED-4 11
T_LEDD0A 10
T_LEDD1A 9
T_LEDD2A 8
T_LEDD3A 7
T_LEDD4A 6
T_LEDD5A 5
T_LEDD15A 4
GNDD 3
DIM_DUTY 2
LCD_SW 1
GNDD
V3R3REF1
C6017
100u/10
HAR
C6050
0.1u
V3R3REF2
CN6002
VKN1814-A
H 2/2 CN3008
V3R3REF1 24
GREF1 23
V3R3REF2 22
GREF2 21
FIL_S1 20
FIL_S0 19
TIME_0 18
TIME_1 17
EFF_CH_S0 16
EFF_CH_S1 15
GNDD 14
TP2_XAD 13
TP2_YAD 12
GNDD 11
TP2_XV 10
TP2_YV 9
GNDD 8
GNDD 7
TP1_XAD 6
TP1_YAD 5
GNDD 4
TP1_XV 3
TP1_YV 2
GNDD 1
GREF1
GREF2
GNDD
PWRFL
L6001
CTH1349-A
R6003
10k
C6007
100u/25
HAT
Q6002
2SA1615-Z51(LK)
R6006
15k
R6007
220
(3216)
R6037
220
(3216)
R6008
220
(3216)
R6036
220
(3216)
R6004
220
(3216)
R6005
220
(3216)
R6034
220
(3216)
R6035
220
(3216)
Q6001
DTC123EU
LCD_SW
C6010
10u
CCG1223-A
C6011
10u
CCG1223-A
PWRFL2
GNDFL
PWRFL2
V+5FL
D6031
1SS355
IC6001
TA78L05F
IN
GND
OUT
C6012
0.01u
C6015
1u
GNDFL
PWRFL2
D6003
UDZS6R2(B)
R6009
10k
R6010
100k
2SC4617(RS)
Q6007
V+5FL
R6012
47k
R6013
1M
Q6008
2SC46
R6014
DIM_DUTY
D6004
1SS355
R6011
22k
2SA1774(Q
PWRFL2
R6001
10k
D6001
HZU6R2(B3)
PDRV_A
C6005
10u
CCG1223-A
C6008
10u
CCG1223-A
Q6003
TS8M1
Q6005
TS8M1
GNDFL
NDRV_B
C6013
10u
CCG1223-A
T6001
CTT1136-A
PWRFL2
R6002
10k
D6002
HZU6R2(B3)
PDRV_C
C6014
10u
CCG1223-A
T6002
CTT1136-A
GNDFL
C6006
10u
CCG1223-A
C6009
10u
CCG1223-A
Q6004
TS8M1
Q6006
TS8M1
GNDFL
NDRV_D
INVERTER CIRCUIT
P

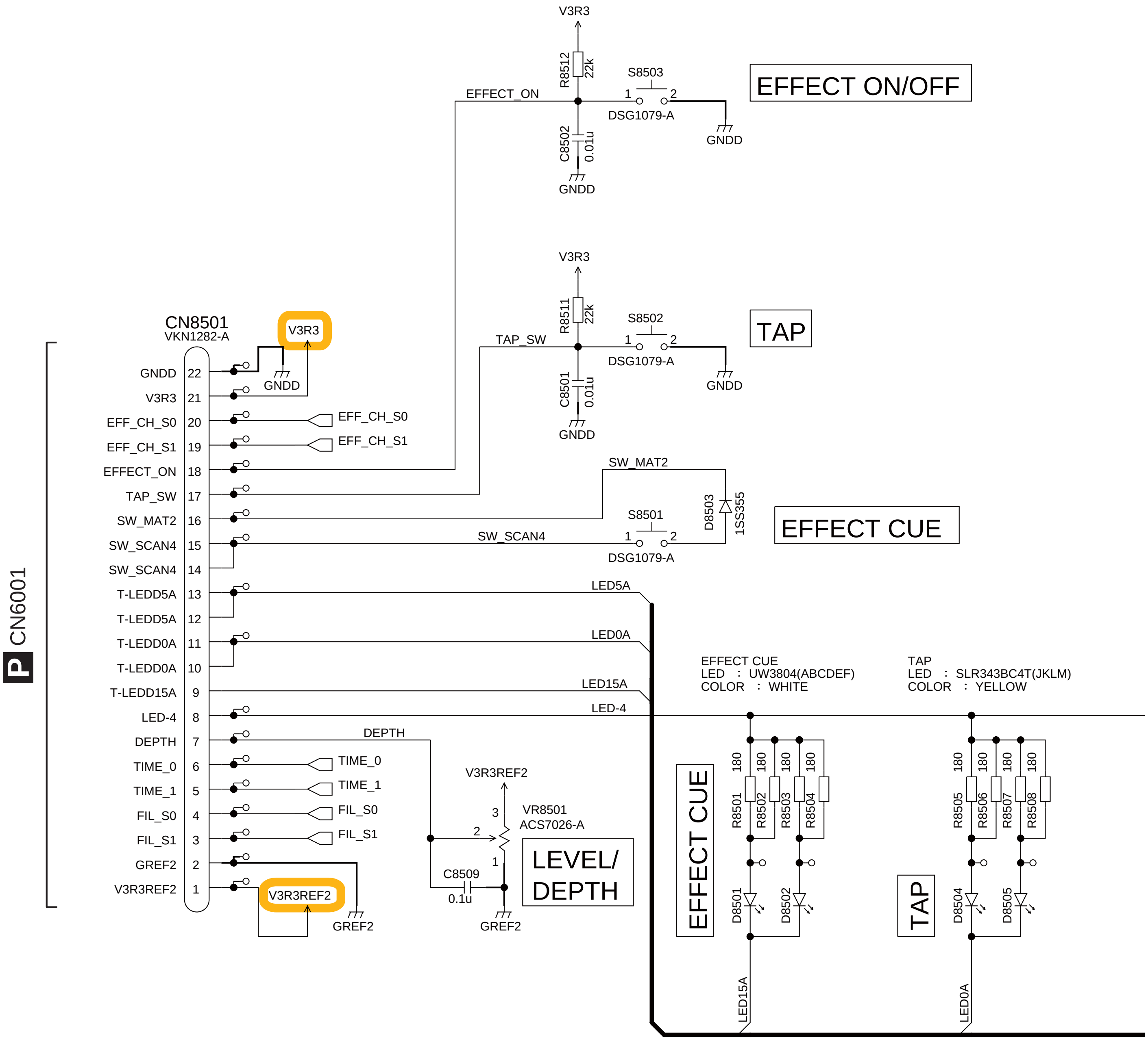
P INVT ASSY (DWX2717)


Notes
NM
STBY
is No Mount
HAR
CEHAR***M F
HAT
CEHAT***M F
CH
CCSRCH***K F
CKSRYB***J F
SE
RN1/16SE****D Ω
(3216)
RN1/4S***J Ω
RS1/16S***J Ω
+5FL
R6012
47k
R6013
1M
OVP
STBY
Q6008
2SC4617(RS)
R6014
100k
Q6009
2SA1774(QR)
R6015
39k
C6018
C6019
0.47u
R6017
0.01u
1M
C6020
0.1u
R6018
NM
C6021
0.33u
C6022
1u
C6023
0.1u
C6024
NM
C6025
NM
STBY
GNDFL
IC6002
CTIMR
OVP
ENA
SST
VDDA
GNDA
REF
RT1
FB
CMP
NDR_B
PDR_A
CT
RT
PGND
LCT
DIM
LPWM
PDR_C
NDR_D
OZ964ISN-TBB
C6031
0.047u
R6024
11k
RN
VR6001
C6033
1000p
CH
GNDFL
C6032
0.047u
NDRV_B
PDRV_A
PDRV_C
NDRV_D
C6016
0.018u
D6005
1SS355
R6021
0
CFB
Q6010
S1
D1
G1
G2
D2
S2
UM6K1N-T
V+5FL
R6016
33k
C6030
0.01u
R6025
1M
LAMPST
GNDFL
CN6006
CKS3192-A
FL_PWR_H2
FL_PWR_H1
TO LCD
(high voltage end)
C6026
15p
CCG1194-A
D6007
MC2850-11
C6027
0.027u
C6028
15p
CCG1194-A
NDFL
D6008
MC2850-11
OVP
C6029
0.027u
D6009
MC2850-11
CN6007
CKS4428-A
FL_PWR_L2
FL_PWR_L1
TO LCD
(low voltage end)
R6022
2.7k
LAMPST
D6006
1SS355
R6019
56k
D6010
MC2850-11
R6023
510
CFB
R6020
56k
V3R3REF1
Q6017
DTA124EUA
Q6012
DTC124EUA
TP1_XV
D6025
1SS355
R6031
1M
C6039
1000p
D6026
1SS355
C6047
0.1u
GREF1
TP1_YAD
R6027
0
Q6018
DTC124EUA
D6017
1SS355
C6035
1000p
D6012
1SS355
D6018
1SS355
C6043
0.1u
TP1_XAD
R6026
0
Q6016
DTC124EUA
D6015
1SS355
C6034
1000p
D6011
1SS355
D6016
1SS355
C6042
0.1u
Q6015
DTA124EUA
TP1_YV
Q6011
DTC124EUA
D6023
1SS355
R6030
1M
C6038
1000p
D6024
1SS355
C6046
0.1u
CN6008
9610S-04B
RIGHT
TOP
LEFT
BOTTOM
TO TOUCH PANEL
(UP SIDE)
V3R3REF2
TP2_XAD
R6028
0
Q6020
DTC124EUA
D6019
1SS355
C6036
1000p
D6013
1SS355
D6020
1SS355
C6044
0.1u
GREF2
CN6009
9610S-04B
TOP
LEFT
BOTTOM
RIGHT
TO TOUCH PANEL
(DOWN SIDE)
Q6019
DTA124EUA
TP2_YV
Q6013
DTC124EUA
D6027
1SS355
R6032
1M
C6040
1000p
D6028
1SS355
C6048
0.1u
TP2_YAD
R6029
0
Q6022
DTC124EUA
D6021
1SS355
C6037
1000p
D6014
1SS355
D6022
1SS355
C6045
0.1u
Q6021
DTA124EUA
TP2_XV
Q6014
DTC124EUA
D6029
1SS355
R6033
1M
C6041
1000p
D6030
1SS355
C6049
0.1u

A
B
C
D
E
F

10.28 CTL3R ASSY

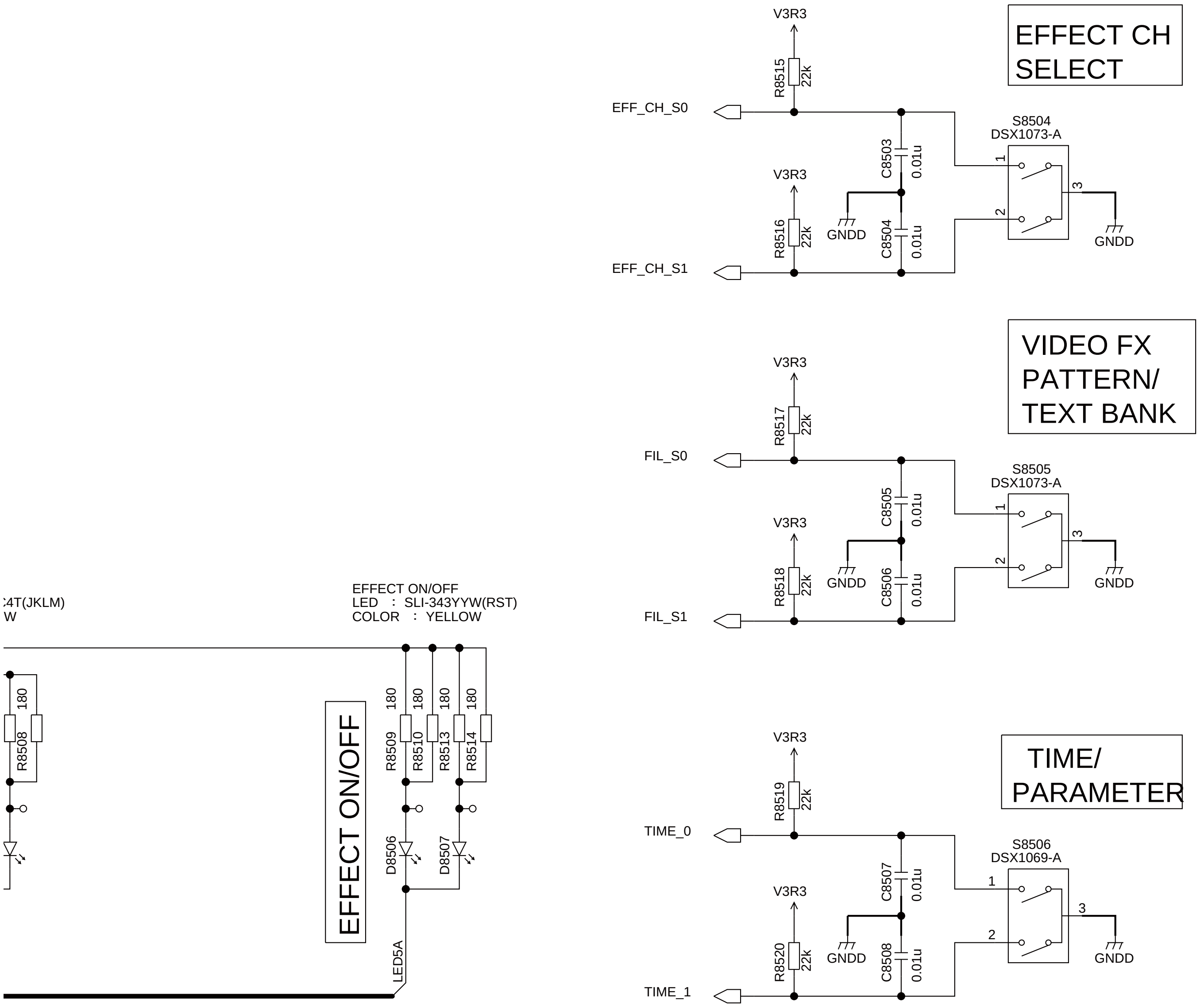
Q CTL3R ASSY
(DWX2730)


V3R3
R8512
22k
S8503
EFFECT_ON
1
2
DSG1079-A
EFFECT ON/OFF
GNDD
C8502
0.01u
GNDD
V3R3
R8511
22k
S8502
TAP_SW
1
2
DSG1079-A
TAP
GNDD
C8501
0.01u
GNDD
CN8501
VKN1282-A
V3R3
GNDD
P CN6001
GNDD 22
V3R3 21
EFF_CH_S0 20
EFF_CH_S1 19
EFFECT_ON 18
TAP_SW 17
SW_MAT2 16
SW_SCAN4 15
SW_SCAN4 14
T-LEDD5A 13
T-LEDD5A 12
T-LEDD0A 11
T-LEDD0A 10
T-LEDD15A 9
LED-4 8
DEPTH 7
TIME_0 6
TIME_1 5
FIL_S0 4
FIL_S1 3
GREF2 2
V3R3REF2 1
EFF_CH_S0
EFF_CH_S1
SW_MAT2
D8503
1SS355
S8501
SW_SCAN4
1
2
DSG1079-A
EFFECT CUE
LED5A
LED0A
LED15A
LED-4
EFFECT CUE
LED : UW3804(ABCDEF)
COLOR : WHITE
TAP
LED : SLR343BC4T(JKLM)
COLOR : YELLOW
DEPTH
TIME_0
TIME_1
FIL_S0
FIL_S1
V3R3REF2
3
VR8501
ACS7026-A
2
1
C8509
0.1u
LEVEL/
DEPTH
GREF2
V3R3REF2
GREF2
180
180
180
180
R8501
R8502
R8503
R8504
EFFECT CUE
D8501
D8502
LED15A
180
180
180
180
R8505
R8506
R8507
R8508
TAP
D8504
D8505
LED0A

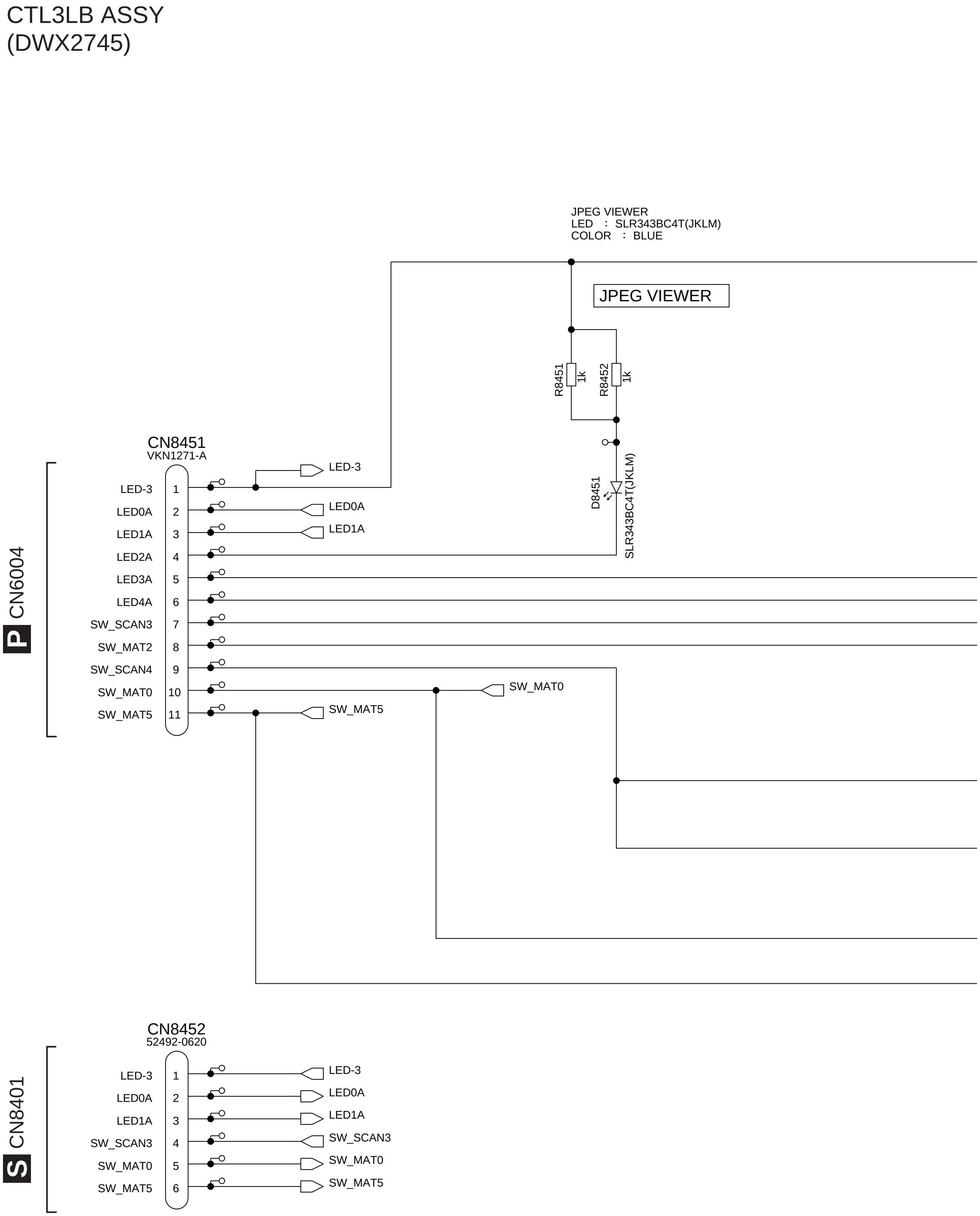
Notes

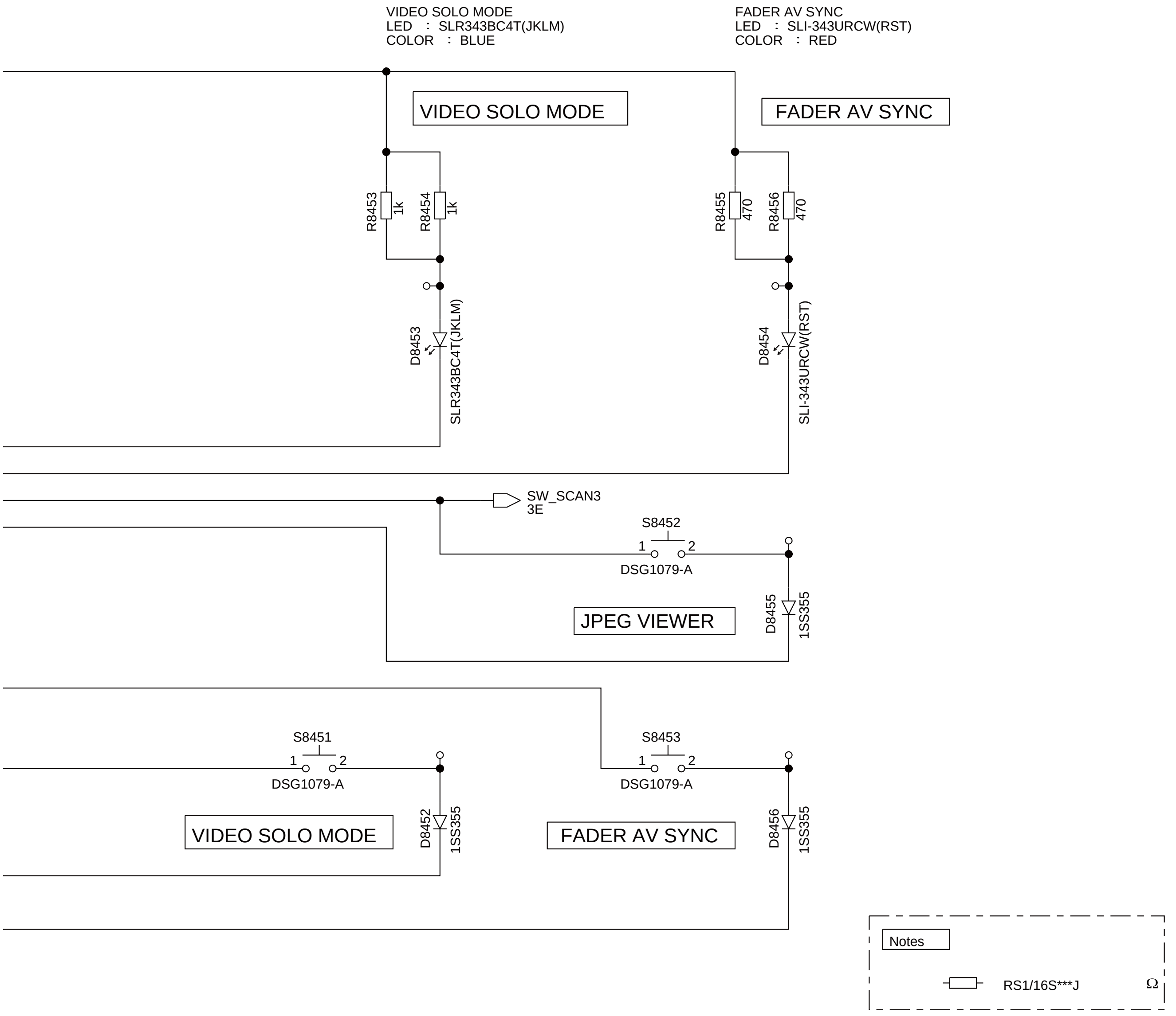
⊣⊢ CKSRYB***K F

−▭− RS1/16S***J Ω


EFFECT CH SELECT
V3R3
R8515
22k
EFF_CH_S0
C8503
0.01u
S8504
DSX1073-A
1
2
3
V3R3
R8516
22k
GNDD
C8504
0.01u
GNDD
EFF_CH_S1
VIDEO FX PATTERN/ TEXT BANK
V3R3
R8517
22k
FIL_S0
C8505
0.01u
S8505
DSX1073-A
V3R3
R8518
22k
GNDD
C8506
0.01u
GNDD
FIL_S1
TIME/ PARAMETER
V3R3
R8519
22k
TIME_0
C8507
0.01u
S8506
DSX1069-A
V3R3
R8520
22k
GNDD
C8508
0.01u
GNDD
TIME_1
:4T(JKLM)
W
EFFECT ON/OFF
LED : SLI-343YYW(RST)
COLOR : YELLOW
180
R8508
180
R8509
180
R8510
180
R8513
180
R8514
EFFECT ON/OFF
D8506
D8507
LED5A

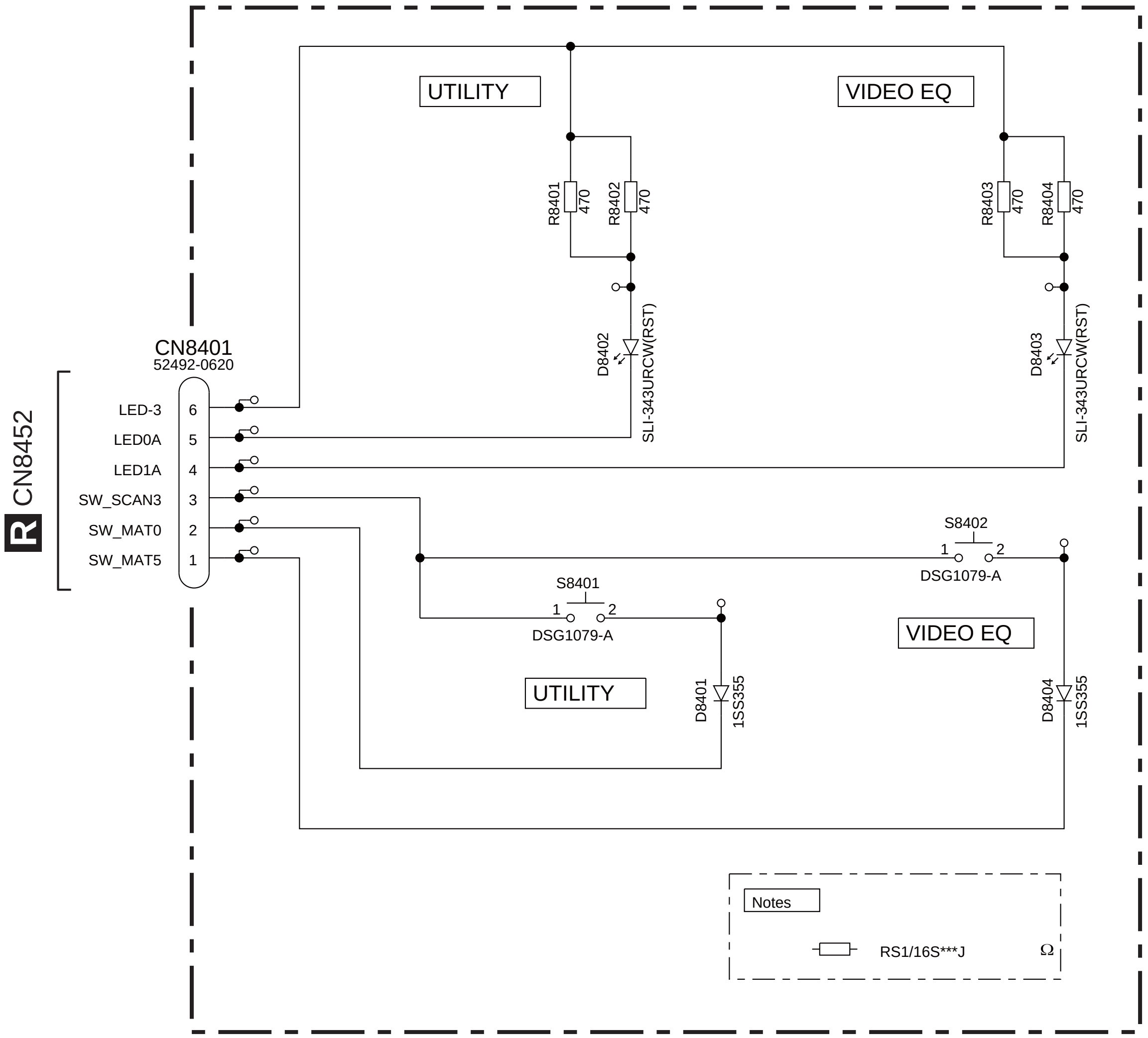
10.29 CTL3LB ASSY


R
CTL3LB ASSY
(DWX2745)
JPEG VIEWER
LED : SLR343BC4T(JKLM)
COLOR : BLUE
JPEG VIEWER
R8451
1k
R8452
1k
D8451
SLR343BC4T(JKLM)
CN8451
VKN1271-A
P CN6004
LED-3 1
LED0A 2
LED1A 3
LED2A 4
LED3A 5
LED4A 6
SW_SCAN3 7
SW_MAT2 8
SW_SCAN4 9
SW_MAT0 10
SW_MAT5 11
LED-3
LED0A
LED1A
SW_MAT0
SW_MAT5
CN8452
52492-0620
S CN8401
LED-3 1
LED0A 2
LED1A 3
SW_SCAN3 4
SW_MAT0 5
SW_MAT5 6
LED-3
LED0A
LED1A
SW_SCAN3
SW_MAT0
SW_MAT5

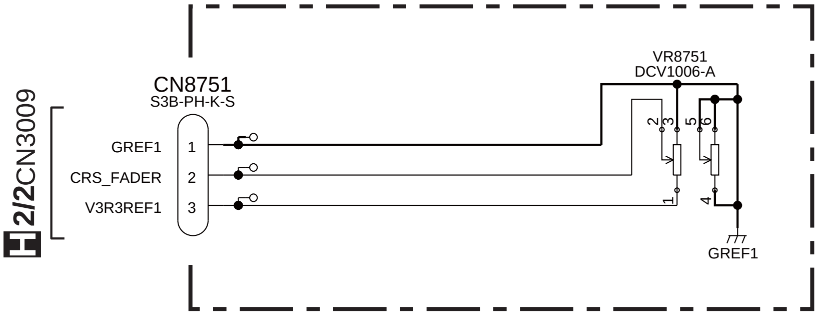

VIDEO SOLO MODE
LED : SLR343BC4T(JKLM)
COLOR : BLUE
FADER AV SYNC
LED : SLI-343URCW(RST)
COLOR : RED
VIDEO SOLO MODE
FADER AV SYNC
R8453
1k
R8454
1k
R8455
470
R8456
470
D8453
SLR343BC4T(JKLM)
D8454
SLI-343URCW(RST)
SW_SCAN3
3E
S8452
1
2
DSG1079-A
D8455
1SS355
JPEG VIEWER
S8451
1
2
DSG1079-A
S8453
1
2
DSG1079-A
D8452
1SS355
D8456
1SS355
VIDEO SOLO MODE
FADER AV SYNC
Notes
RS1/16S***J
Ω

10.30 CTL3LA, CRFD and DIO2 ASSYS

S CTL3LA ASSY
(DWX2744)

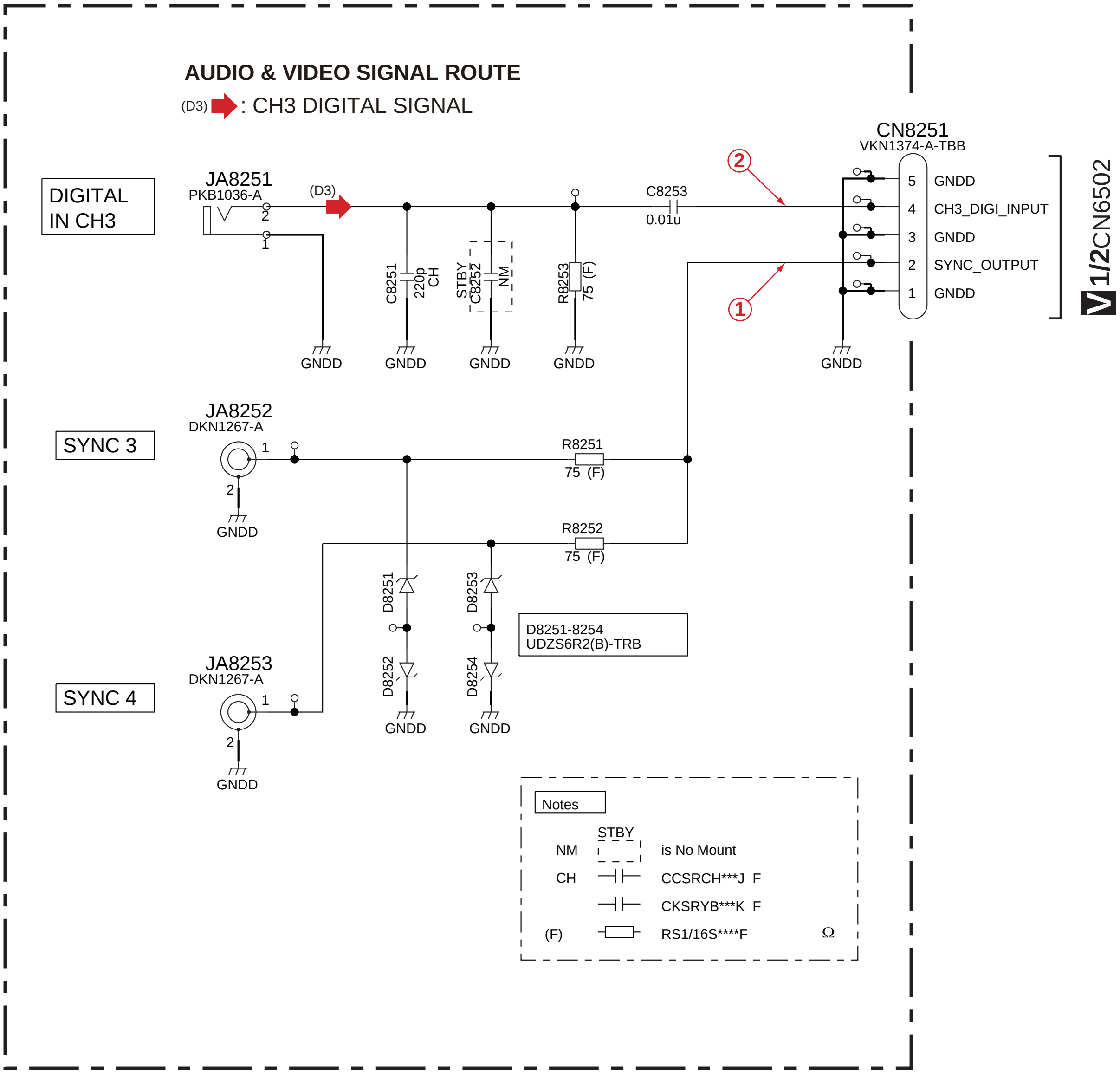

UTILITY
VIDEO EQ
R8401
470
R8402
470
R8403
470
R8404
470
D8402
SLI-343URCW(RST)
D8403
SLI-343URCW(RST)
CN8401
52492-0620
R
CN8452
LED-3 6
LED0A 5
LED1A 4
SW_SCAN3 3
SW_MAT0 2
SW_MAT5 1
S8402
1 2
DSG1079-A
S8401
1 2
DSG1079-A
VIDEO EQ
UTILITY
D8401
1SS355
D8404
1SS355
Notes
RS1/16S***J
Ω

T CRFD ASSY
(DWX2739)


H 2/2 CN3009
CN8751
S3B-PH-K-S
GREF1 1
CRS_FADER 2
V3R3REF1 3
VR8751
DCV1006-A
2
3
1
5
6
4
GREF1

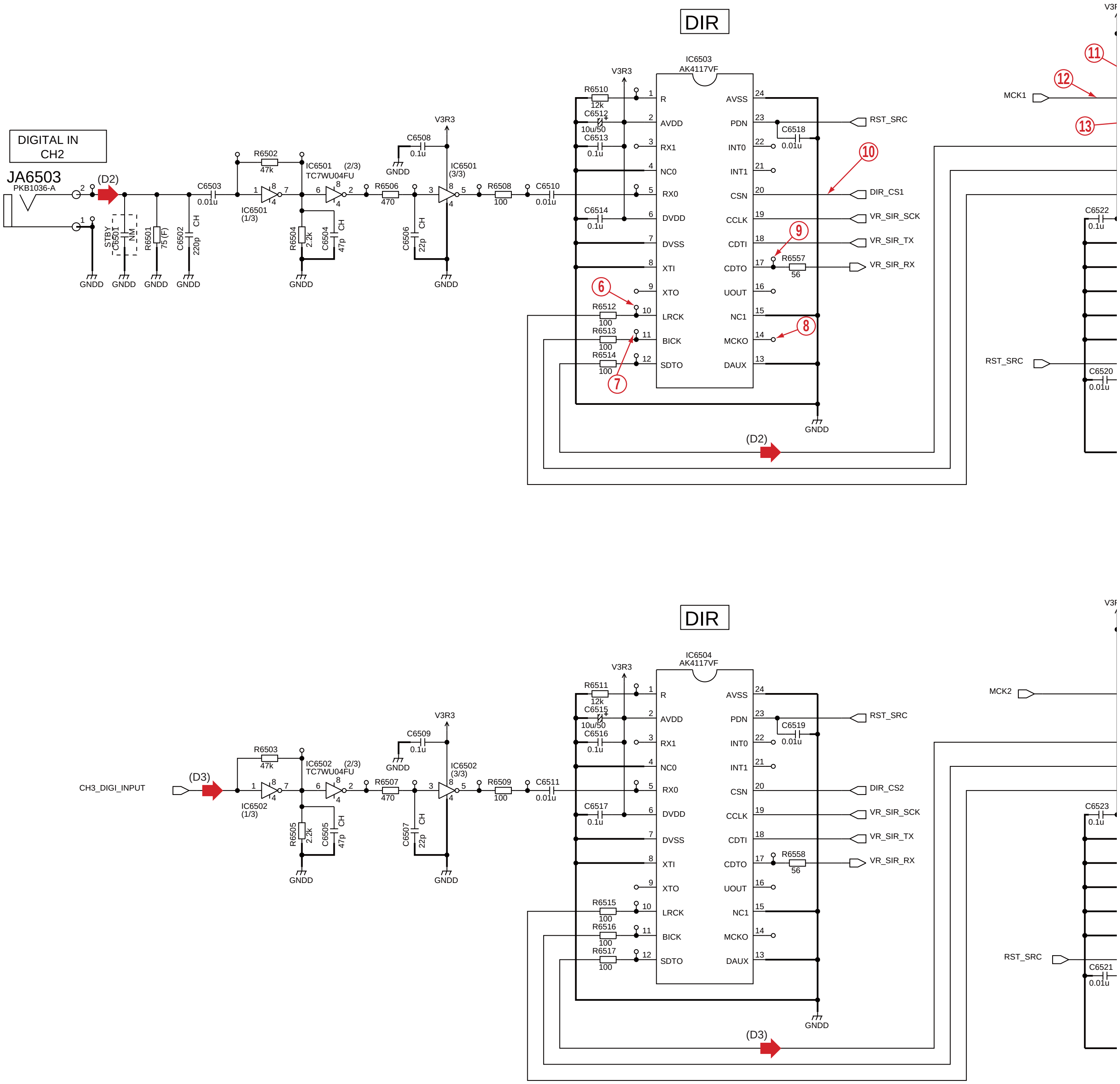
S **T**

U DIO2 ASSY (DWX2719)


AUDIO & VIDEO SIGNAL ROUTE
(D3) : CH3 DIGITAL SIGNAL
DIGITAL IN CH3
JA8251
PKB1036-A
(D3)
C8251 220p CH
STBY C8252 NM
R8253 75 (F)
C8253 0.01u
GNDD
CN8251
VKN1374-A-TBB
5 GNDD
4 CH3_DIGI_INPUT
3 GNDD
2 SYNC_OUTPUT
1 GNDD
②
①
V 1/2 CN6502
SYNC 3
JA8252
DKN1267-A
R8251 75 (F)
R8252 75 (F)
D8251
D8252
D8253
D8254
D8251-8254
UDZS6R2(B)-TRB
SYNC 4
JA8253
DKN1267-A
Notes
NM STBY is No Mount
CH CCSRCH***J F
CKSRYB***K F
(F) RS1/16S****F Ω

10.31 DIO1 ASSY (1/2)

V 1/2 DIO1 ASSY
(DWX2724)

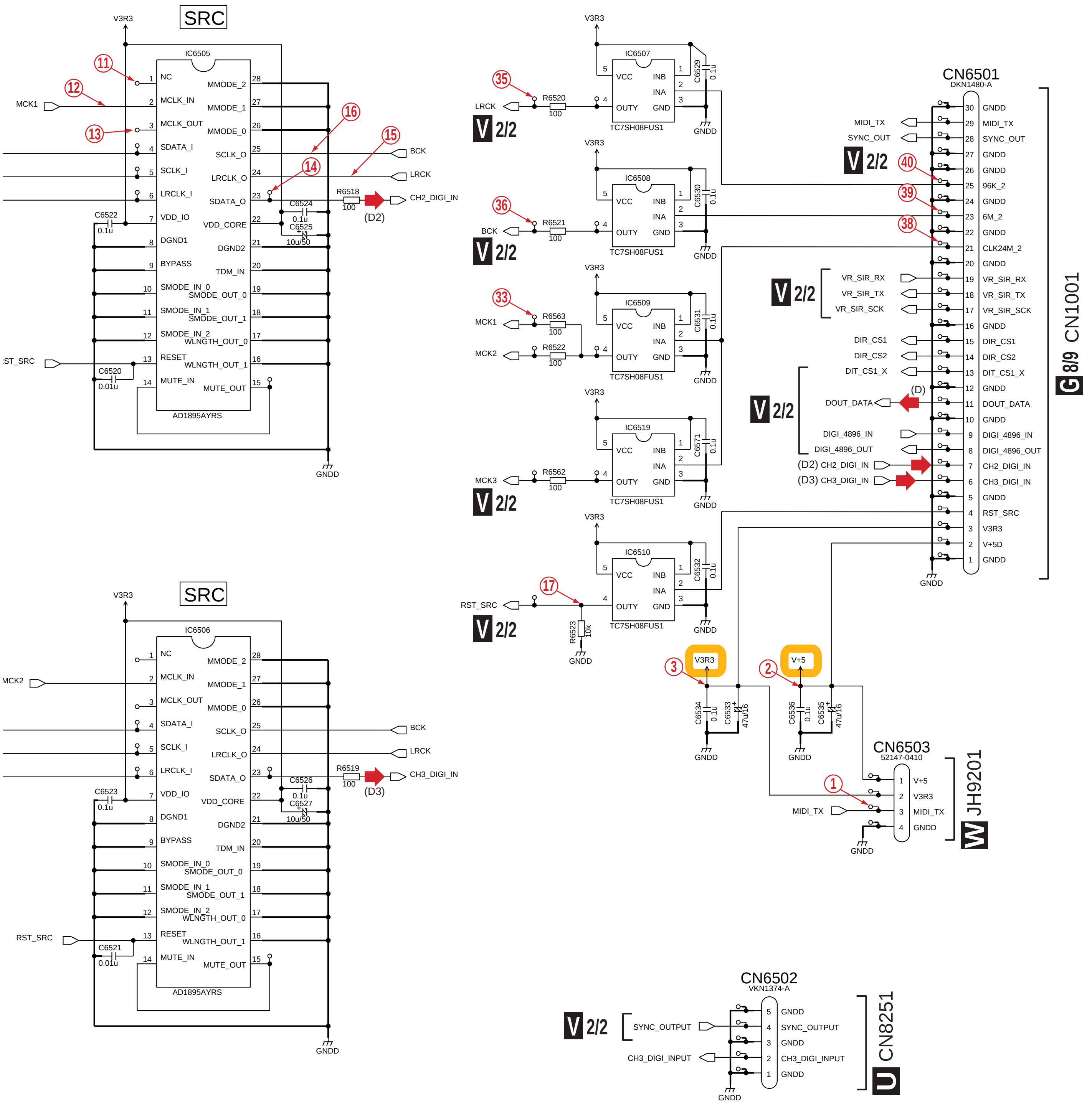

DIGITAL IN
CH2
JA6503
PKB1036-A
(D2)
C6503 0.01u
R6502 47k
IC6501 (2/3) TC7WU04FU
IC6501 (1/3)
IC6501 (3/3)
R6501 75 (F)
C6501 STBY NM
C6502 220p CH
R6504 2.2k
C6504 47p CH
R6506 470
C6506 22p CH
C6508 0.1u
V3R3
R6508 100
C6510 0.01u
GNDD
DIR
IC6503 AK4117VF
R6510 12k
C6512 10u/50
C6513 0.1u
C6514 0.1u
R6512 100
R6513 100
R6514 100
R AVDD RX1 NC0 RX0 DVDD DVSS XTI XTO LRCK BICK SDTO
AVSS PDN INT0 INT1 CSN CCLK CDTI CDTO UOUT NC1 MCKO DAUX
C6518 0.01u
R6557 56
RST_SRC
DIR_CS1
VR_SIR_SCK
VR_SIR_TX
VR_SIR_RX
MCK1
C6522 0.1u
C6520 0.01u
⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬
CH3_DIGI_INPUT
(D3)
R6503 47k
IC6502 (2/3) TC7WU04FU
IC6502 (1/3)
IC6502 (3/3)
R6505 2.2k
C6505 47p CH
R6507 470
C6507 22p CH
C6509 0.1u
R6509 100
C6511 0.01u
IC6504 AK4117VF
R6511 12k
C6515 10u/50
C6516 0.1u
C6517 0.1u
R6515 100
R6516 100
R6517 100
C6519 0.01u
R6558 56
DIR_CS2
MCK2
C6523 0.1u
C6521 0.01u
A B C D E F

AUDIO & VIDEO SIGNAL ROUTE

(D2) ➡ : CH2 DIGITAL SIGNAL
(D3) ➡ : CH3 DIGITAL SIGNAL
(D) ➡ : DIGITAL CH SIGNAL

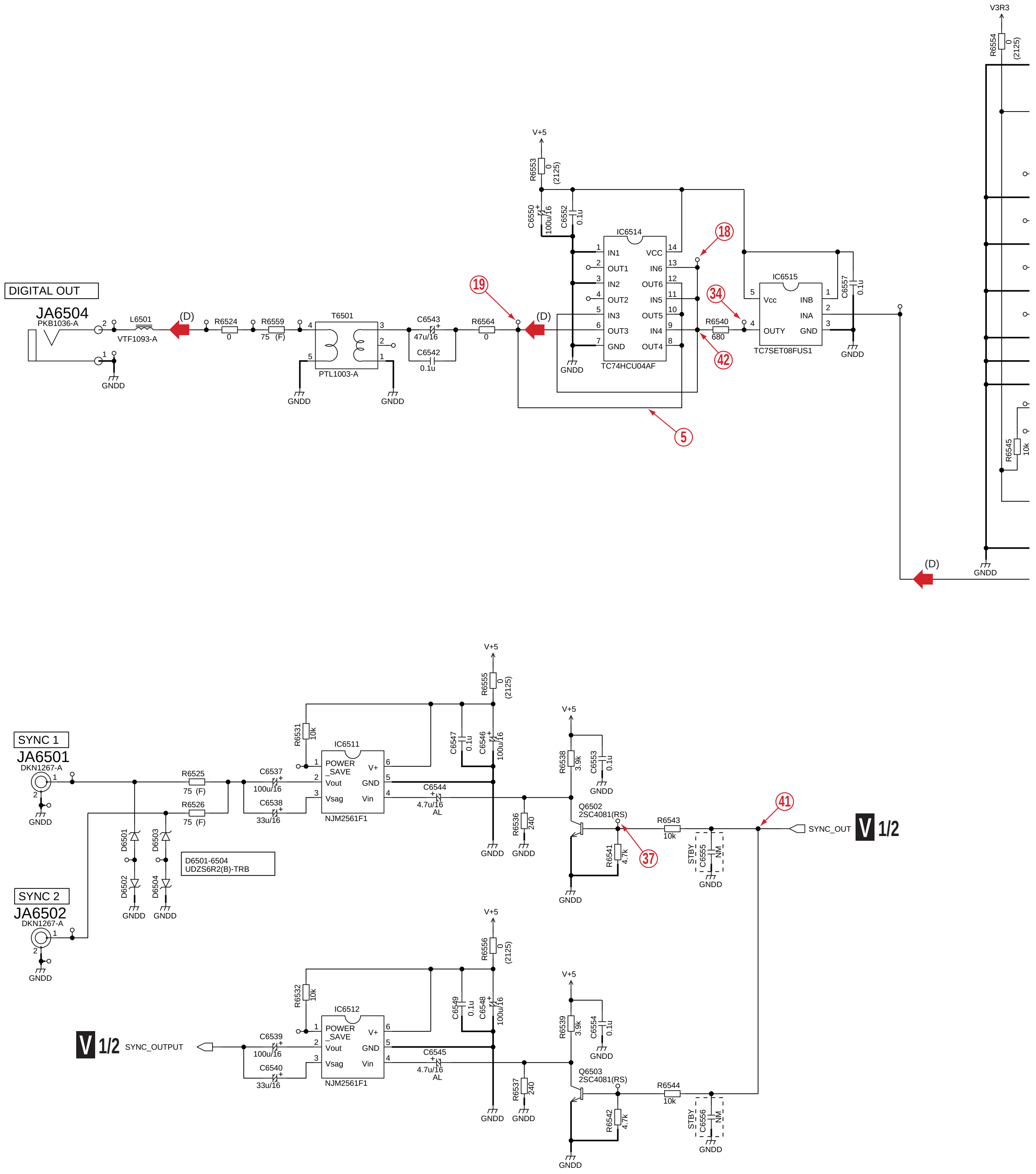
Notes

NM	STBY ┆	is No Mount	
CH	⊣⊢	CCSRCH***J F	
	⊣⊢	CEAT***M F	
	⊣⊢	CKSRYB***K F	
(F)	▭	RS1/16S***F	Ω
	▭	RS1/16S***J	Ω

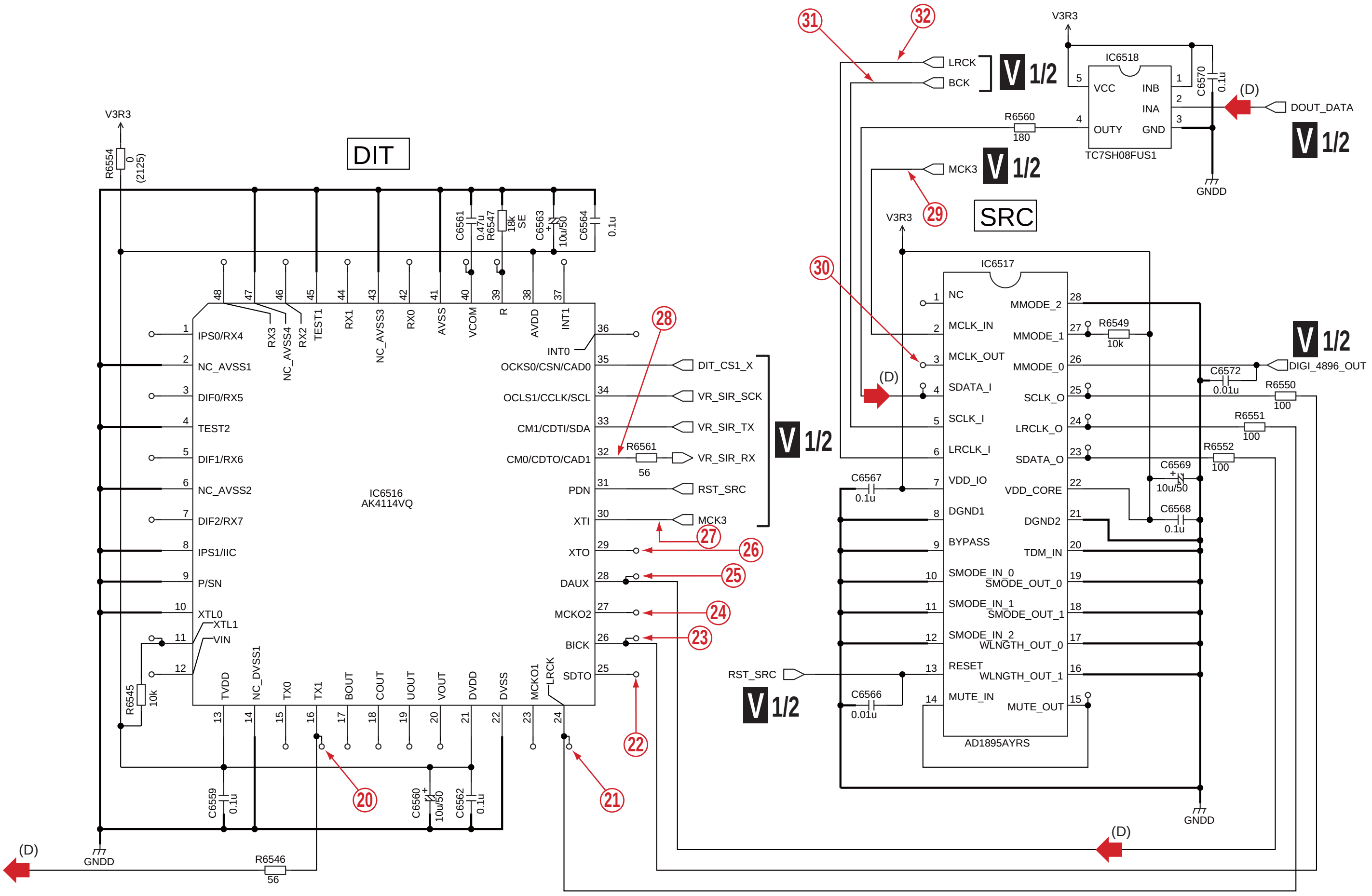

SRC
V3R3
IC6505
AD1895AYRS
NC
MCLK_IN
MCLK_OUT
SDATA_I
SCLK_I
LRCLK_I
VDD_IO
DGND1
BYPASS
SMODE_IN_0
SMODE_IN_1
SMODE_IN_2
RESET
MUTE_IN
MMODE_2
MMODE_1
MMODE_0
SCLK_O
LRCLK_O
SDATA_O
VDD_CORE
DGND2
TDM_IN
SMODE_OUT_0
SMODE_OUT_1
WLNGTH_OUT_0
WLNGTH_OUT_1
MUTE_OUT
11
12
13
14
15
16
MCK1
BCK
LRCK
R6518
100
CH2_DIGI_IN
(D2)
C6524
0.1u
C6525
10u/50
C6522
0.1u
ST_SRC
C6520
0.01u
GNDD
SRC
V3R3
IC6506
AD1895AYRS
MCK2
BCK
LRCK
R6519
100
CH3_DIGI_IN
(D3)
C6526
0.1u
C6527
10u/50
C6523
0.1u
RST_SRC
C6521
0.01u
GNDD
35
LRCK
R6520
100
V 2/2
IC6507
TC7SH08FUS1
VCC
INB
INA
OUTY
GND
C6529
0.1u
36
BCK
R6521
100
IC6508
C6530
0.1u
33
MCK1
R6563
100
MCK2
R6522
100
IC6509
C6531
0.1u
MCK3
R6562
100
IC6519
C6571
0.1u
17
RST_SRC
R6523
10k
IC6510
C6532
0.1u
3
V3R3
2
V+5
C6534
0.1u
C6533
47u/16
C6536
0.1u
C6535
47u/16
CN6501
DKN1480-A
30 GNDD
29 MIDI_TX
28 SYNC_OUT
27 GNDD
26 GNDD
25 96K_2
24 GNDD
23 6M_2
22 GNDD
21 CLK24M_2
20 GNDD
19 VR_SIR_RX
18 VR_SIR_TX
17 VR_SIR_SCK
16 GNDD
15 DIR_CS1
14 DIR_CS2
13 DIT_CS1_X
12 GNDD
11 DOUT_DATA
10 GNDD
9 DIGI_4896_IN
8 DIGI_4896_OUT
7 CH2_DIGI_IN
6 CH3_DIGI_IN
5 GNDD
4 RST_SRC
3 V3R3
2 V+5D
1 GNDD
MIDI_TX
SYNC_OUT
40
39
38
VR_SIR_RX
VR_SIR_TX
VR_SIR_SCK
DIR_CS1
DIR_CS2
DIT_CS1_X
(D)
DOUT_DATA
DIGI_4896_IN
DIGI_4896_OUT
(D2) CH2_DIGI_IN
(D3) CH3_DIGI_IN
G 8/9 CN1001
CN6503
52147-0410
1 V+5
2 V3R3
3 MIDI_TX
4 GNDD
1
MIDI_TX
W JH9201
CN6502
VKN1374-A
5 GNDD
4 SYNC_OUTPUT
3 GNDD
2 CH3_DIGI_INPUT
1 GNDD
SYNC_OUTPUT
CH3_DIGI_INPUT
U CN8251

10.32 DIO1 ASSY (2/2)

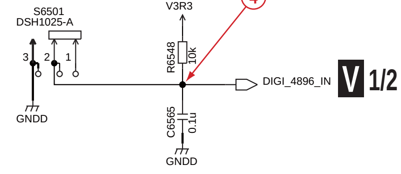
V 2/2 DIO1 ASSY
(DWX2724)


DIGITAL OUT
JA6504
PKB1036-A
L6501
VTF1093-A
GNDD
(D)
R6524
0
R6559
75 (F)
T6501
PTL1003-A
C6543
47u/16
C6542
0.1u
R6564
0
(D)
V+5
R6553
0
(2125)
C6550
100u/16
C6552
0.1u
IC6514
IN1
OUT1
IN2
OUT2
IN3
OUT3
GND
VCC
IN6
OUT6
IN5
OUT5
IN4
OUT4
TC74HCU04AF
IC6515
Vcc
OUTY
INB
INA
GND
TC7SET08FUS1
R6540
680
C6557
0.1u
V3R3
R6554
0
(2125)
R6545
10k
(D)
⑱
⑲
㉞
㊷
⑤
SYNC 1
JA6501
DKN1267-A
SYNC 2
JA6502
DKN1267-A
R6525
75 (F)
R6526
75 (F)
D6501
D6502
D6503
D6504
D6501-6504
UDZS6R2(B)-TRB
C6537
100u/16
C6538
33u/16
R6531
10k
IC6511
POWER_SAVE
Vout
Vsag
V+
GND
Vin
NJM2561F1
R6555
0
(2125)
C6547
0.1u
C6546
100u/16
C6544
4.7u/16
AL
R6536
240
R6538
3.9k
C6553
0.1u
Q6502
2SC4081(RS)
R6541
4.7k
R6543
10k
STBY
C6555
NM
㊶
㊲
SYNC_OUT
V 1/2
V 1/2
SYNC_OUTPUT
C6539
100u/16
C6540
33u/16
R6532
10k
IC6512
NJM2561F1
R6556
0
(2125)
C6549
0.1u
C6548
100u/16
C6545
4.7u/16
AL
R6537
240
R6539
3.9k
C6554
0.1u
Q6503
2SC4081(RS)
R6542
4.7k
R6544
10k
C6556
NM
A
B
C
D
E
F

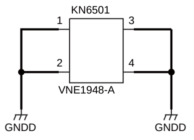
V 2/2

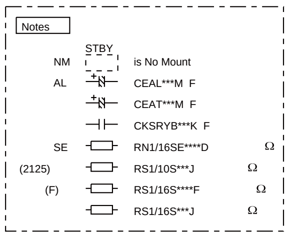

DIT
SRC
V3R3
R6554
0
(2125)
IC6516
AK4114VQ
C6561
0.47u
R6547
18k
SE
C6563
10u/50
C6564
0.1u
IPS0/RX4
NC_AVSS1
DIF0/RX5
TEST2
DIF1/RX6
NC_AVSS2
DIF2/RX7
IPS1/IIC
P/SN
XTL0
XTL1
VIN
RX3
NC_AVSS4
RX2
TEST1
RX1
NC_AVSS3
RX0
AVSS
VCOM
R
AVDD
INT1
INT0
OCKS0/CSN/CAD0
OCLS1/CCLK/SCL
CM1/CDTI/SDA
CM0/CDTO/CAD1
PDN
XTI
XTO
DAUX
MCKO2
BICK
SDTO
LRCK
MCKO1
DVSS
DVDD
VOUT
UOUT
COUT
BOUT
TX1
TX0
NC_DVSS1
TVDD
DIT_CS1_X
VR_SIR_SCK
VR_SIR_TX
VR_SIR_RX
RST_SRC
MCK3
R6561
56
V 1/2
R6545
10k
C6559
0.1u
C6560
10u/50
C6562
0.1u
GNDD
(D)
R6546
56
⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗ ㉘ ㉙ ㉚ ㉛ ㉜
LRCK
BCK
V 1/2
IC6518
TC7SH08FUS1
VCC
INB
INA
OUTY
GND
C6570
0.1u
DOUT_DATA
R6560
180
MCK3
V 1/2
GNDD
IC6517
AD1895AYRS
NC
MCLK_IN
MCLK_OUT
SDATA_I
SCLK_I
LRCLK_I
VDD_IO
DGND1
BYPASS
SMODE_IN_0
SMODE_IN_1
SMODE_IN_2
RESET
MUTE_IN
MMODE_2
MMODE_1
MMODE_0
SCLK_O
LRCLK_O
SDATA_O
VDD_CORE
DGND2
TDM_IN
SMODE_OUT_0
SMODE_OUT_1
WLNGTH_OUT_0
WLNGTH_OUT_1
MUTE_OUT
R6549
10k
C6572
0.01u
DIGI_4896_OUT
R6550
100
R6551
100
R6552
100
C6569
10u/50
C6568
0.1u
C6567
0.1u
C6566
0.01u
RST_SRC
V 1/2
GNDD
(D)

48/96 SW


S6501
DSH1025-A
3 2 1
GNDD
V3R3
R6548
10k
④
DIGI_4896_IN
V 1/2
C6565
0.1u
GNDD

SCREW PLATE


KN6501
1 3
2 4
VNE1948-A
GNDD
GNDD

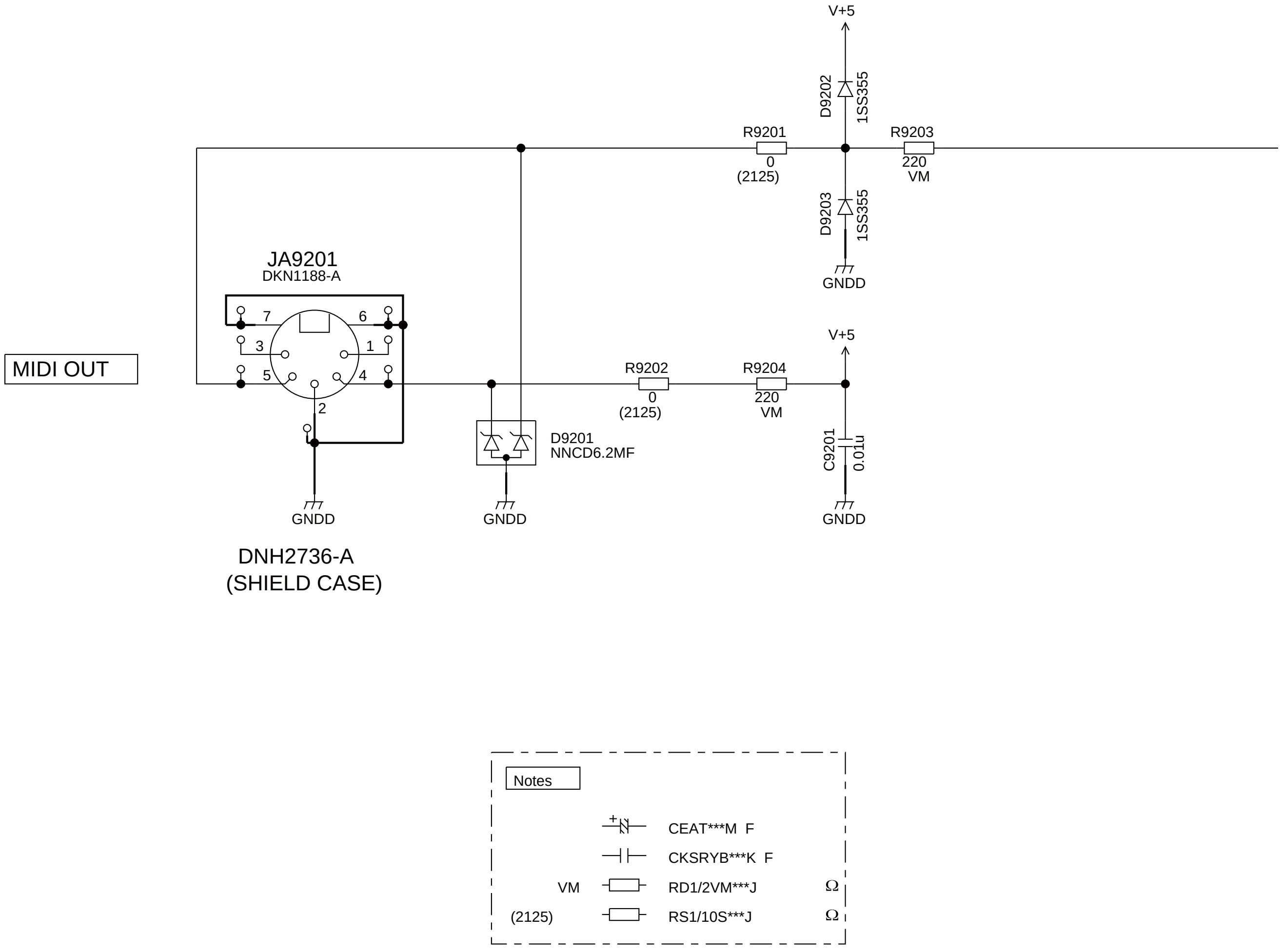

Notes
STBY
NM
is No Mount
AL
CEAL***M F
CEAT***M F
CKSRYB***K F
SE
RN1/16SE****D Ω
(2125)
RS1/10S***J Ω
(F)
RS1/16S****F Ω
RS1/16S***J Ω

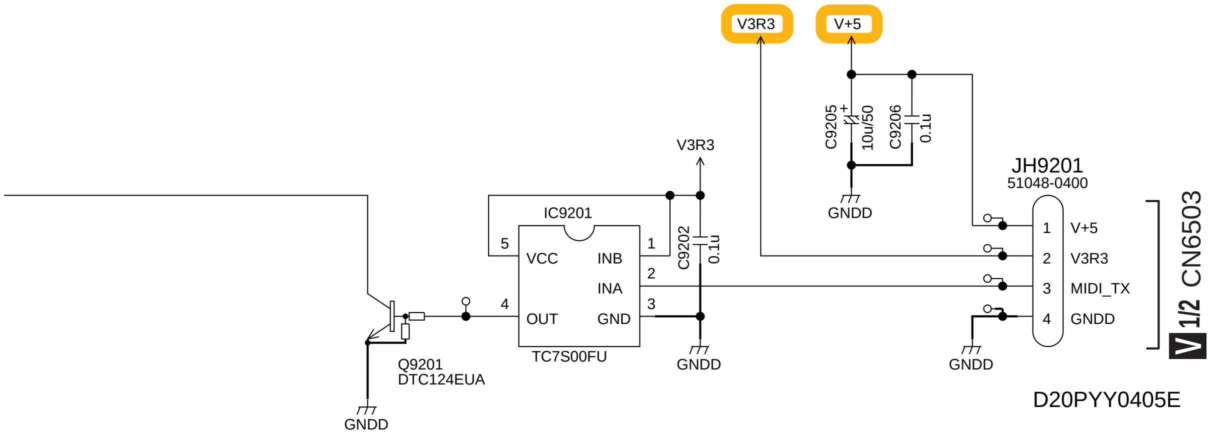
AUDIO & VIDEO SIGNAL ROUTE

(D) ➡ : DIGITAL CH SIGNAL

10.33 MIDI ASSY

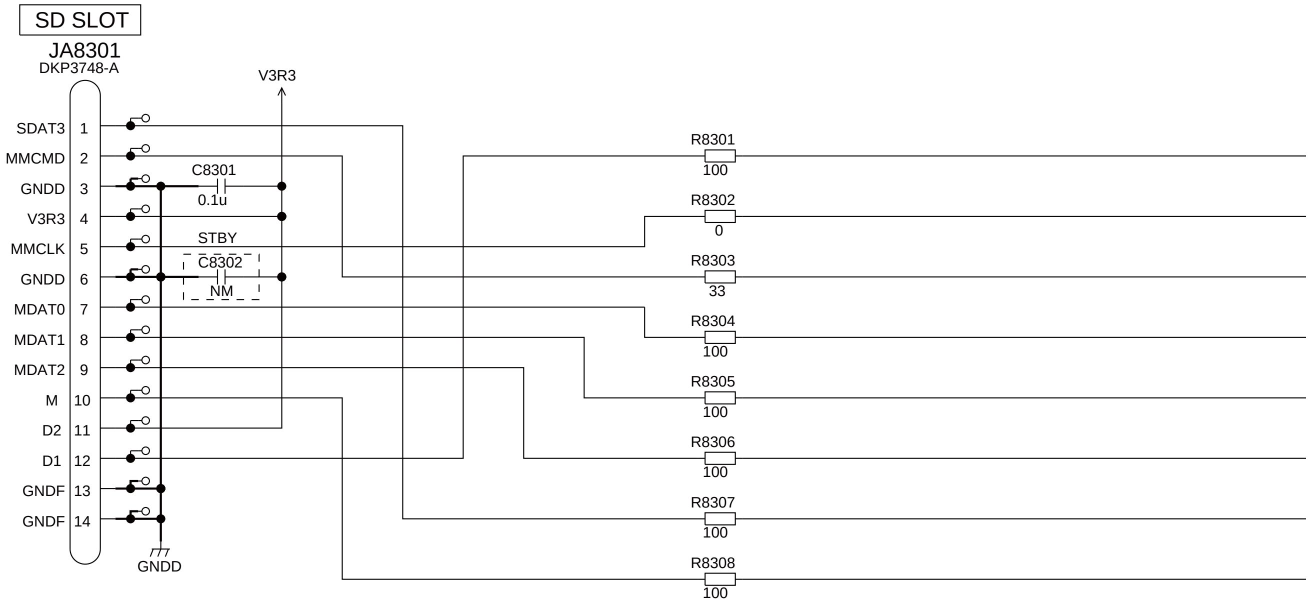
W MIDI ASSY
(DWX2751)

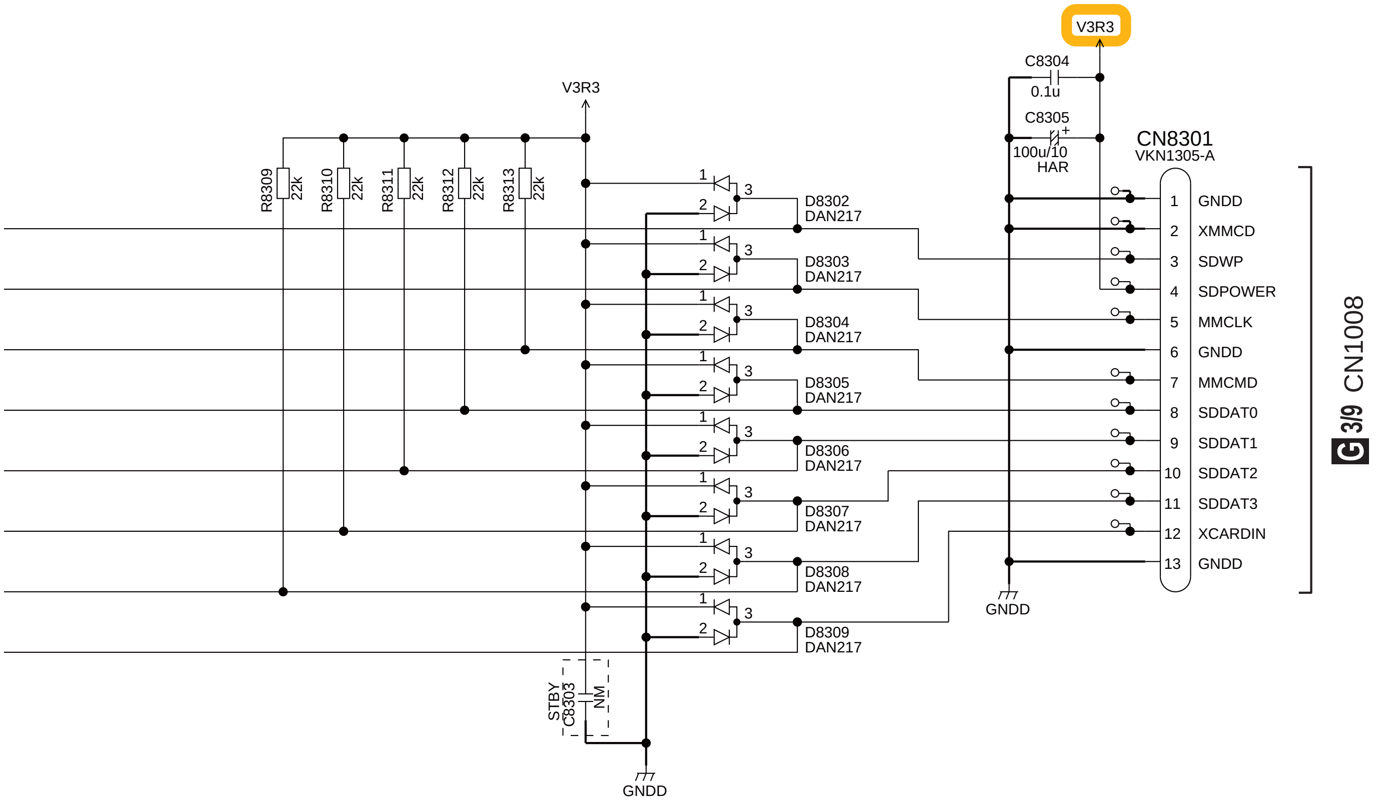

V+5
D9202
1SS355
R9201
0
(2125)
R9203
220
VM
D9203
1SS355
GNDD
JA9201
DKN1188-A
7
6
3
1
5
4
2
MIDI OUT
V+5
R9202
0
(2125)
R9204
220
VM
D9201
NNCD6.2MF
C9201
0.01u
GNDD
GNDD
GNDD
DNH2736-A
(SHIELD CASE)
Notes
CEAT***M F
CKSRYB***K F
VM
RD1/2VM***J
Ω
(2125)
RS1/10S***J
Ω

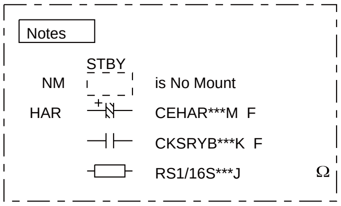

V3R3
V+5
C9205
10u/50
C9206
0.1u
GNDD
V3R3
JH9201
51048-0400
IC9201
5
VCC
INB
1
2
INA
4
OUT
GND
3
C9202
0.1u
TC7S00FU
GNDD
1 V+5
2 V3R3
3 MIDI_TX
4 GNDD
V 1/2 CN6503
GNDD
Q9201
DTC124EUA
GNDD
D20PYY0405E

10.34 SDIO ASSY

X SDIO ASSY
(DWX2728)

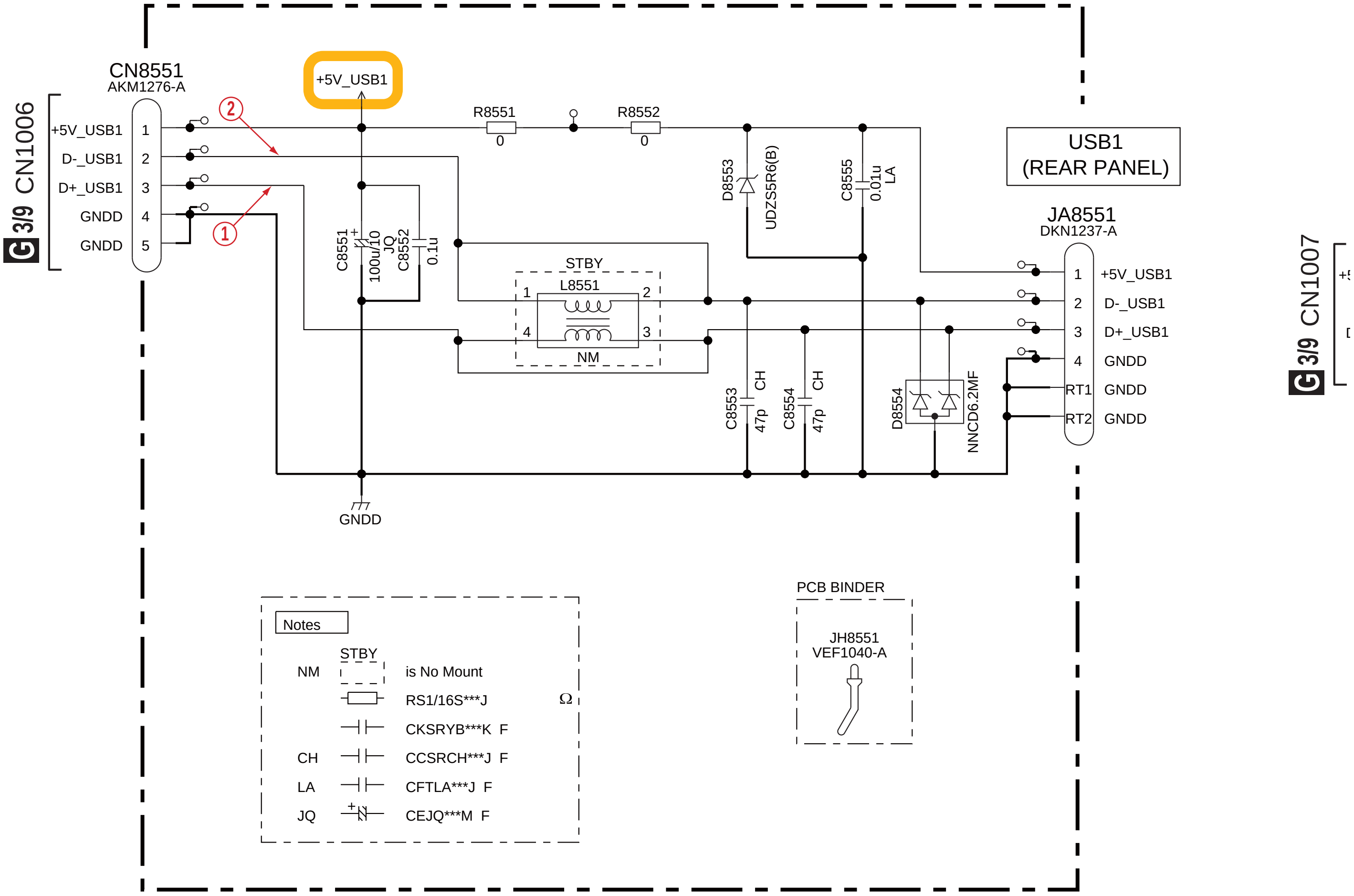

SD SLOT
JA8301
DKP3748-A
V3R3
SDAT3 1
MMCMD 2
GNDD 3
V3R3 4
MMCLK 5
GNDD 6
MDAT0 7
MDAT1 8
MDAT2 9
M 10
D2 11
D1 12
GNDF 13
GNDF 14
GNDD
C8301
0.1u
STBY
C8302
NM
R8301
100
R8302
0
R8303
33
R8304
100
R8305
100
R8306
100
R8307
100
R8308
100


V3R3
C8304
0.1u
C8305
100u/10
HAR
CN8301
VKN1305-A
1 GNDD
2 XMMCD
3 SDWP
4 SDPOWER
5 MMCLK
6 GNDD
7 MMCMD
8 SDDAT0
9 SDDAT1
10 SDDAT2
11 SDDAT3
12 XCARDIN
13 GNDD
G 3/9 CN1008
GNDD
V3R3
R8309 22k
R8310 22k
R8311 22k
R8312 22k
R8313 22k
D8302 DAN217
D8303 DAN217
D8304 DAN217
D8305 DAN217
D8306 DAN217
D8307 DAN217
D8308 DAN217
D8309 DAN217
1
2
3
STBY
C8303
NM
GNDD

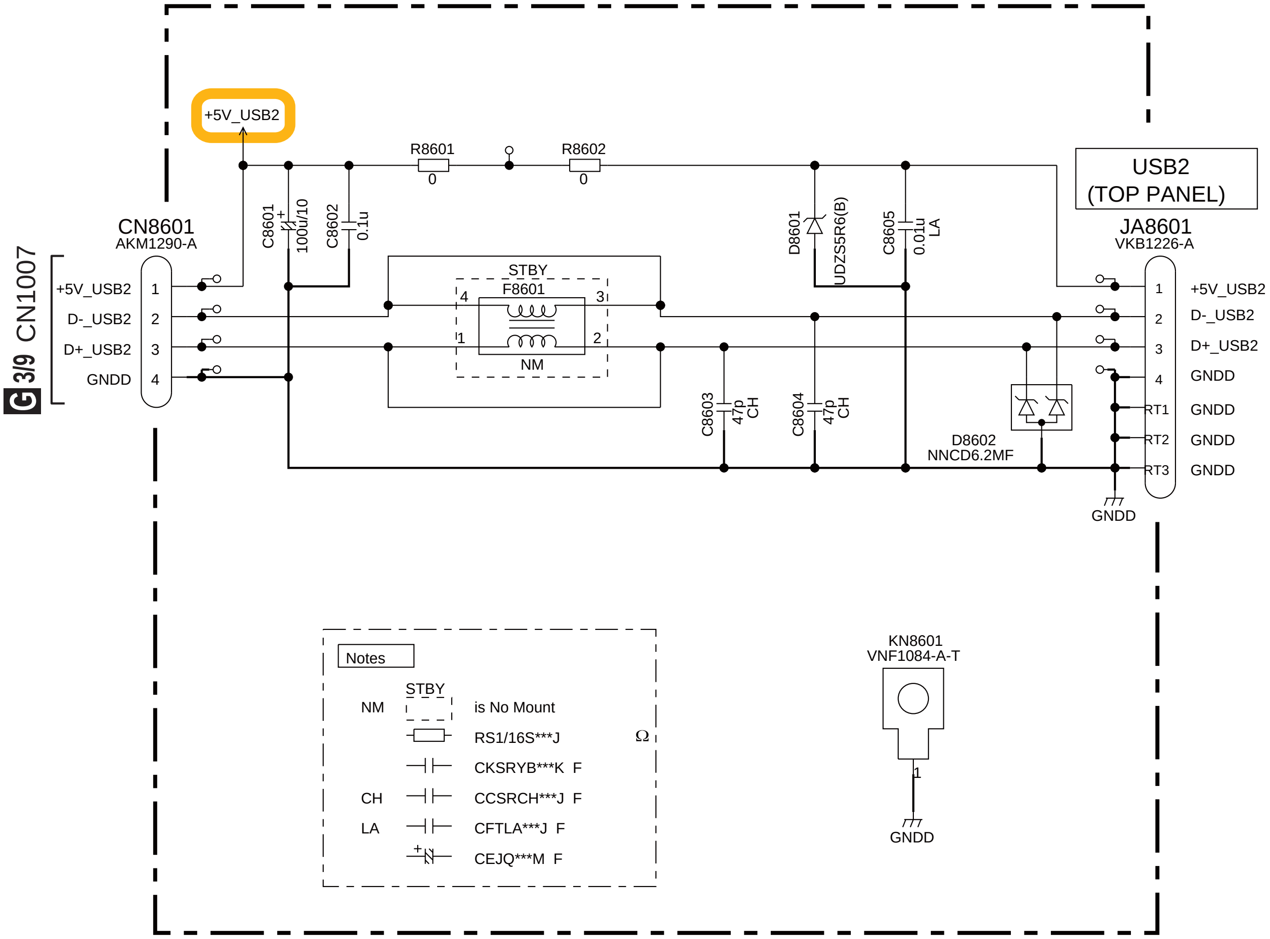

Notes
STBY
NM
is No Mount
HAR
CEHAR***M F
CKSRYB***K F
RS1/16S***J
Ω

10.35 USB1 and USB2 ASSYS

Y USB1 ASSY
(DWX2727)


G 3/9 CN1006
+5V_USB1
D-_USB1
D+_USB1
GNDD
GNDD
CN8551
AKM1276-A
1
2
3
4
5
②
①
+5V_USB1
R8551
0
R8552
0
D8553
UDZS5R6(B)
C8555
0.01u
LA
USB1
(REAR PANEL)
JA8551
DKN1237-A
C8551
100u/10
JQ
C8552
0.1u
STBY
L8551
1
2
4
3
NM
C8553
47p
CH
C8554
47p
CH
D8554
NNCD6.2MF
1 +5V_USB1
2 D-_USB1
3 D+_USB1
4 GNDD
RT1 GNDD
RT2 GNDD
GNDD
G 3/9 CN1007
Notes
NM
STBY
is No Mount
RS1/16S***J
Ω
CKSRYB***K F
CH
CCSRCH***J F
LA
CFTLA***J F
JQ
CEJQ***M F
PCB BINDER
JH8551
VEF1040-A

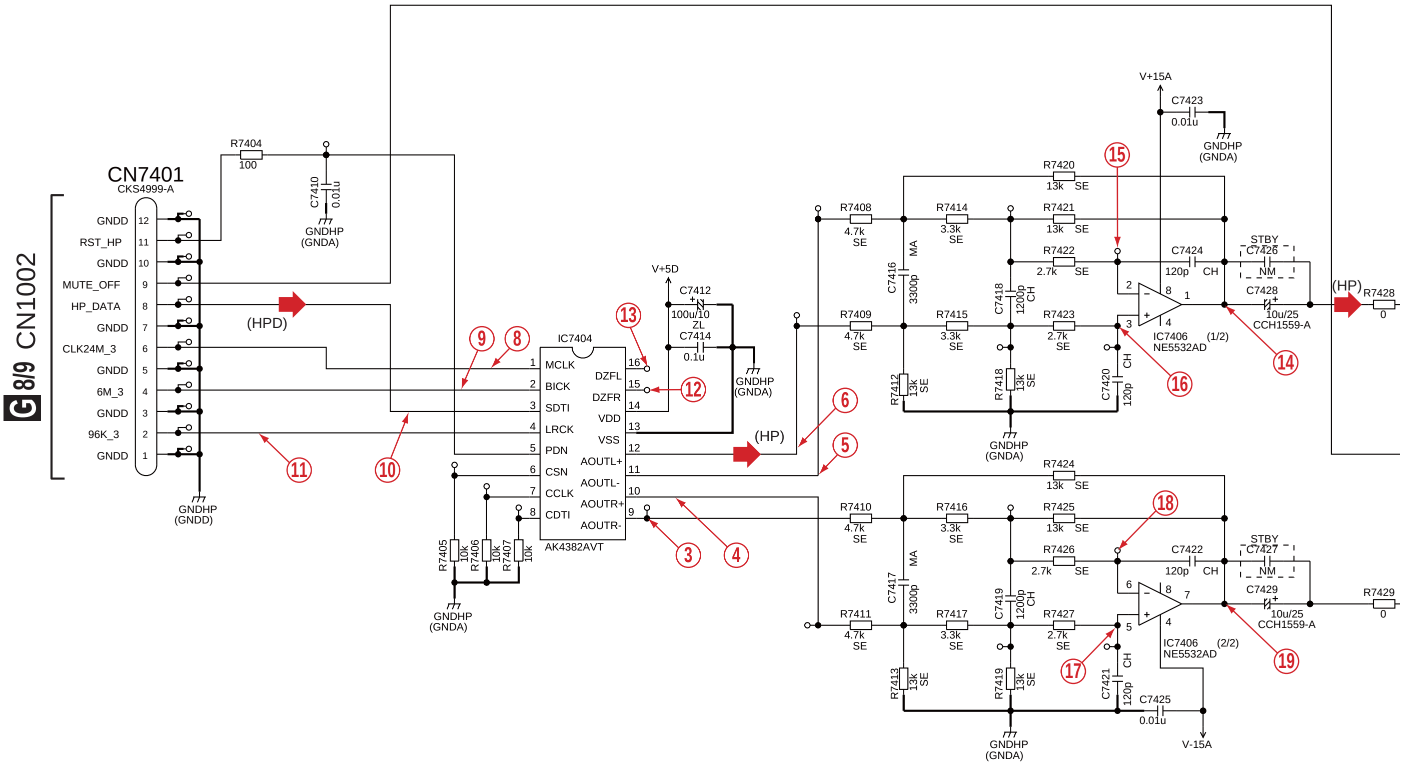
Z USB2 ASSY (DWX2720)



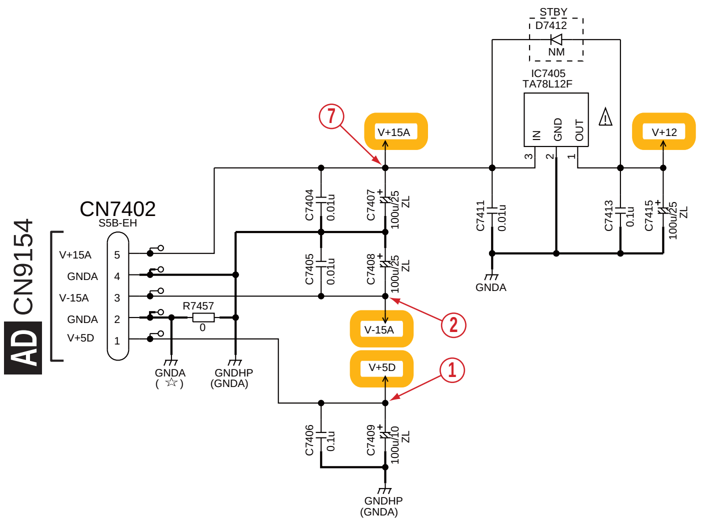
+5V_USB2
R8601
0
R8602
0
USB2
(TOP PANEL)
CN8601
AKM1290-A
G 3/9 CN1007
+5V_USB2 1
D-_USB2 2
D+_USB2 3
GNDD 4
C8601
100u/10
C8602
0.1u
STBY
F8601
4
3
1
2
NM
D8601
UDZS5R6(B)
C8605
0.01u
LA
JA8601
VKB1226-A
1 +5V_USB2
2 D-_USB2
3 D+_USB2
4 GNDD
RT1 GNDD
RT2 GNDD
RT3 GNDD
GNDD
C8603
47p
CH
C8604
47p
CH
D8602
NNCD6.2MF
Notes
STBY
NM is No Mount
RS1/16S***J Ω
CKSRYB***K F
CH CCSRCH***J F
LA CFTLA***J F
CEJQ***M F
KN8601
VNF1084-A-T
1
GNDD

10.36 HAMP ASSY

AA HAMP ASSY
(DWX2726)

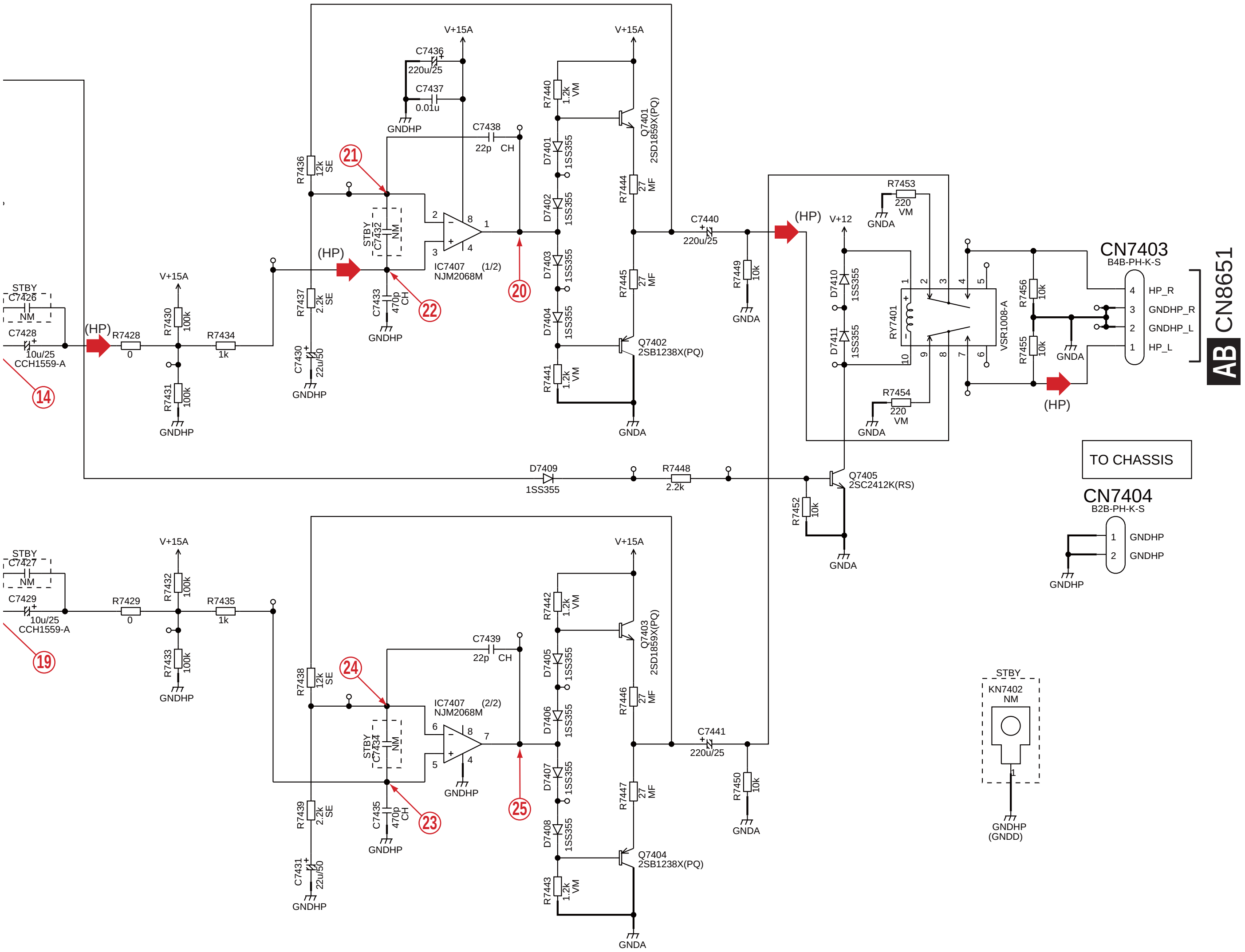

A
B
C
D
G 8/9 CN1002
CN7401
CKS4999-A
GNDD 12
RST_HP 11
GNDD 10
MUTE_OFF 9
HP_DATA 8
GNDD 7
CLK24M_3 6
GNDD 5
6M_3 4
GNDD 3
96K_3 2
GNDD 1
GNDHP (GNDD)
R7404 100
C7410 0.01u
GNDHP (GNDA)
(HPD)
IC7404
AK4382AVT
1 MCLK
2 BICK
3 SDTI
4 LRCK
5 PDN
6 CSN
7 CCLK
8 CDTI
DZFL 16
DZFR 15
VDD 14
VSS 13
AOUTL+ 12
AOUTL- 11
AOUTR+ 10
AOUTR- 9
V+5D
C7412 100u/10 ZL
C7414 0.1u
GNDHP (GNDA)
(HP)
R7405 10k
R7406 10k
R7407 10k
GNDHP (GNDA)
R7408 4.7k SE
R7409 4.7k SE
R7410 4.7k SE
R7411 4.7k SE
R7412 13k SE
R7413 13k SE
R7414 3.3k SE
R7415 3.3k SE
R7416 3.3k SE
R7417 3.3k SE
R7418 13k SE
R7419 13k SE
R7420 13k SE
R7421 13k SE
R7422 2.7k SE
R7423 2.7k SE
R7424 13k SE
R7425 13k SE
R7426 2.7k SE
R7427 2.7k SE
C7416 3300p MA
C7417 3300p MA
C7418 1200p CH
C7419 1200p CH
C7420 120p CH
C7421 120p CH
C7424 120p CH
C7422 120p CH
V+15A
C7423 0.01u
GNDHP (GNDA)
STBY C7426 NM
STBY C7427 NM
C7428 10u/25 CCH1559-A
C7429 10u/25 CCH1559-A
IC7406 (1/2) NE5532AD
IC7406 (2/2) NE5532AD
C7425 0.01u
V-15A
GNDHP (GNDA)
(HP)
R7428 0
R7429 0
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲

15V → 12V


E
F
STBY D7412 NM
IC7405 TA78L12F
IN GND OUT
3 2 1
V+15A
V+12
C7404 0.01u
C7407 100u/25 ZL
C7411 0.01u
C7413 0.1u
C7415 100u/25 ZL
GNDA
AD CN9154
CN7402
S5B-EH
V+15A 5
GNDA 4
V-15A 3
GNDA 2
V+5D 1
C7405 0.01u
C7408 100u/25 ZL
R7457 0
GNDA (☆)
GNDHP (GNDA)
V-15A
V+5D
C7406 0.1u
C7409 100u/10 ZL
GNDHP (GNDA)

Notes

NM	STBY	is No Mount
CH		CCSRCH***J F
		CEAT***M F
ZL		CEHAZL***M F
		CKSRYB*** μ F
MA		CQMA***J F
VM		RD1/2VM***J Ω
SE		RN1/16SE***D Ω
		RS1/16S***J Ω
MF		RS2LMF***J Ω


V+15A
C7436
220u/25
C7437
0.01u
GNDHP
C7438
22p CH
R7436
12k SE
21
STBY
C7432
NM
2
3
8
1
4
(HP)
IC7407 (1/2)
NJM2068M
R7437
2.2k SE
C7433
470p CH
22
20
GNDHP
C7430
22u/50
R7440
1.2k VM
D7401
1SS355
D7402
1SS355
D7403
1SS355
D7404
1SS355
R7441
1.2k VM
Q7401
2SD1859X(PQ)
R7444
27 MF
R7445
27 MF
Q7402
2SB1238X(PQ)
GNDA
C7440
220u/25
R7449
10k
(HP)
V+12
R7453
220 VM
D7410
1SS355
D7411
1SS355
RY7401
VSR1008-A
1 2 3 4 5
10 9 8 7 6
R7454
220 VM
R7456
10k
R7455
10k
CN7403
B4B-PH-K-S
4 HP_R
3 GNDHP_R
2 GNDHP_L
1 HP_L
AB CN8651
(HP)
STBY
C7426
NM
C7428
10u/25
CCH1559-A
14
(HP)
R7428
0
R7430
100k
R7431
100k
R7434
1k
D7409
1SS355
R7448
2.2k
Q7405
2SC2412K(RS)
R7452
10k
TO CHASSIS
CN7404
B2B-PH-K-S
1 GNDHP
2 GNDHP
STBY
C7427
NM
C7429
10u/25
CCH1559-A
19
R7429
0
R7432
100k
R7433
100k
R7435
1k
R7438
12k SE
24
C7439
22p CH
IC7407 (2/2)
NJM2068M
6
5
7
STBY
C7434
NM
R7439
2.2k SE
C7435
470p CH
23
25
C7431
22u/50
R7442
1.2k VM
D7405
1SS355
D7406
1SS355
D7407
1SS355
D7408
1SS355
R7443
1.2k VM
Q7403
2SD1859X(PQ)
R7446
27 MF
R7447
27 MF
Q7404
2SB1238X(PQ)
C7441
220u/25
R7450
10k
STBY
KN7402
NM
GNDHP
(GNDD)

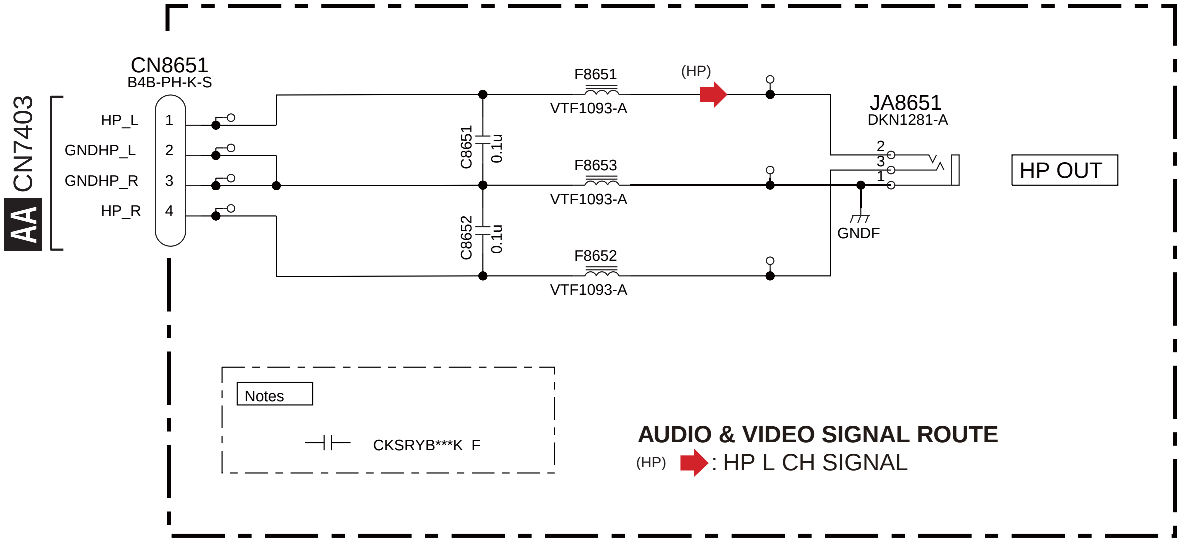
AUDIO & VIDEO SIGNAL ROUTE

(HP) ➡ : HP L CH SIGNAL

(HPD) ➡ : HP DIGITAL CH SIGNAL

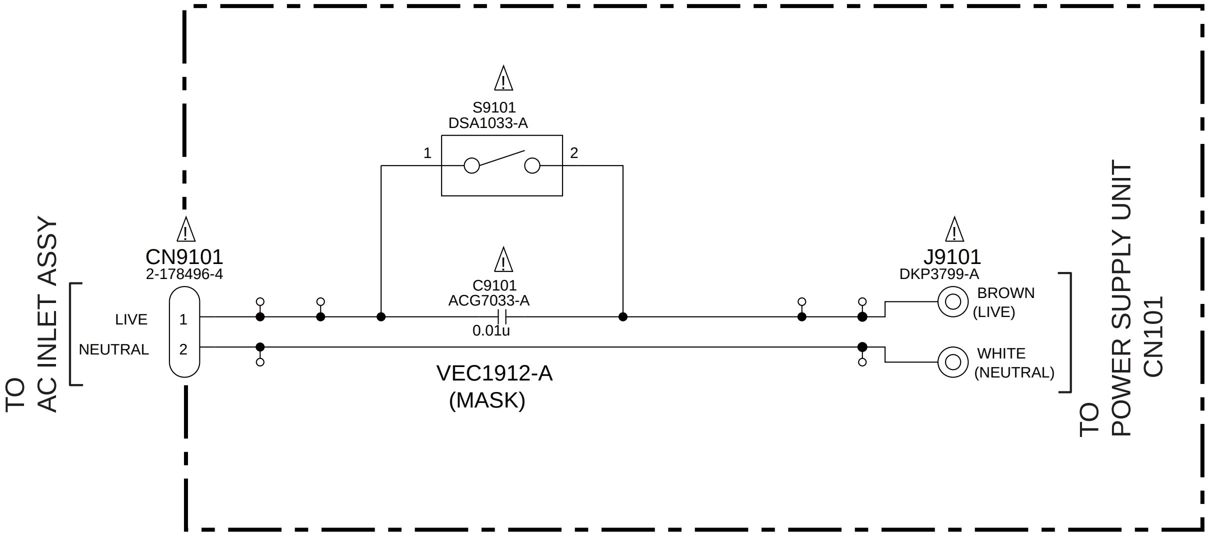
10.37 MJCK and ACSW ASSYS

AB HJCK ASSY (DWX2734)

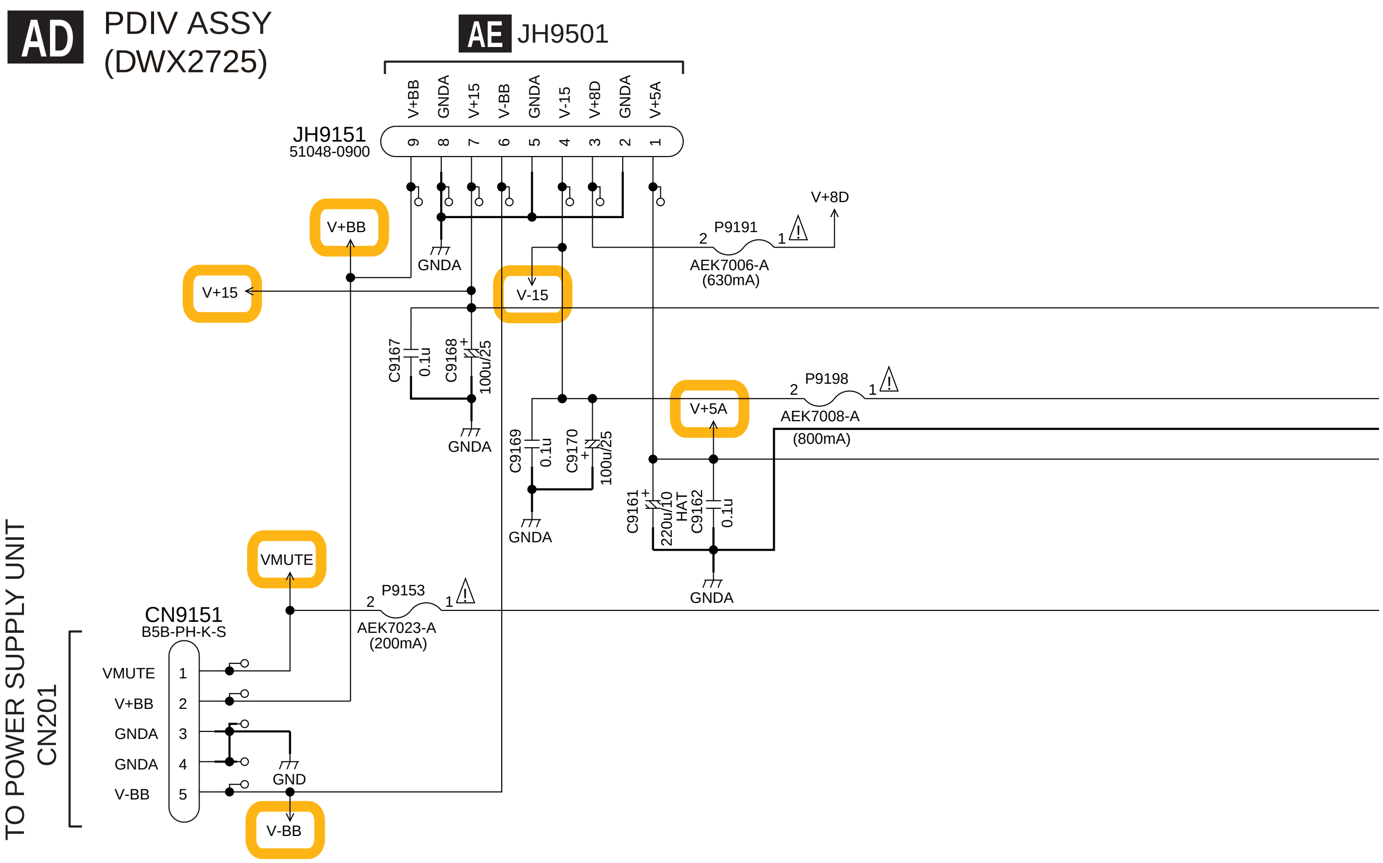

AA CN7403
CN8651
B4B-PH-K-S
HP_L 1
GNDHP_L 2
GNDHP_R 3
HP_R 4
C8651 0.1u
C8652 0.1u
F8651
VTF1093-A
F8653
VTF1093-A
F8652
VTF1093-A
(HP)
JA8651
DKN1281-A
2
3
1
GNDF
HP OUT
Notes
CKSRYB***K F
AUDIO & VIDEO SIGNAL ROUTE
(HP) : HP L CH SIGNAL

TO

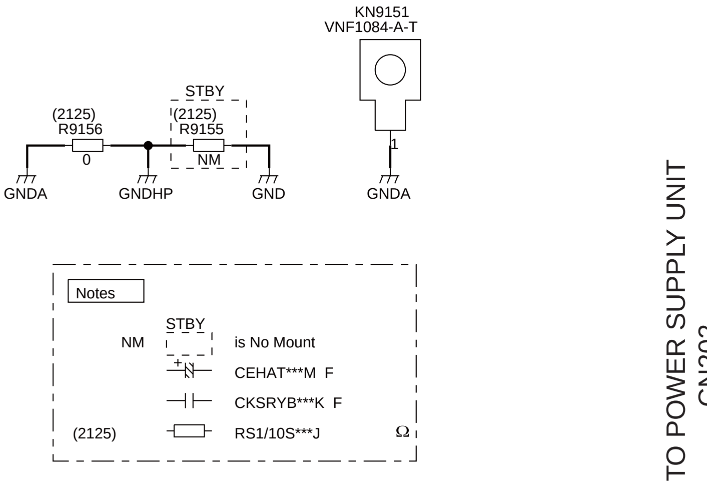
AC ACSW ASSY
(DWX2737)


S9101
DSA1033-A
1
2
CN9101
2-178496-4
LIVE
NEUTRAL
1
2
C9101
ACG7033-A
0.01u
VEC1912-A
(MASK)
J9101
DKP3799-A
BROWN
(LIVE)
WHITE
(NEUTRAL)
TO
AC INLET ASSY
TO
POWER SUPPLY UNIT
CN101

10.38 PDIV ASSY


AD
PDIV ASSY
(DWX2725)
AE
JH9501
V+BB
GNDA
V+15
V-BB
GNDA
V-15
V+8D
GNDA
V+5A
9 8 7 6 5 4 3 2 1
JH9151
51048-0900
V+8D
V+BB
GNDA
P9191
AEK7006-A
(630mA)
V+15
V-15
C9167
0.1u
C9168
100u/25
GNDA
P9198
AEK7008-A
(800mA)
V+5A
C9169
0.1u
C9170
100u/25
GNDA
C9161
220u/10
HAT
C9162
0.1u
GNDA
VMUTE
P9153
AEK7023-A
(200mA)
CN9151
B5B-PH-K-S
VMUTE 1
V+BB 2
GNDA 3
GNDA 4
V-BB 5
GND
V-BB
TO POWER SUPPLY UNIT
CN201

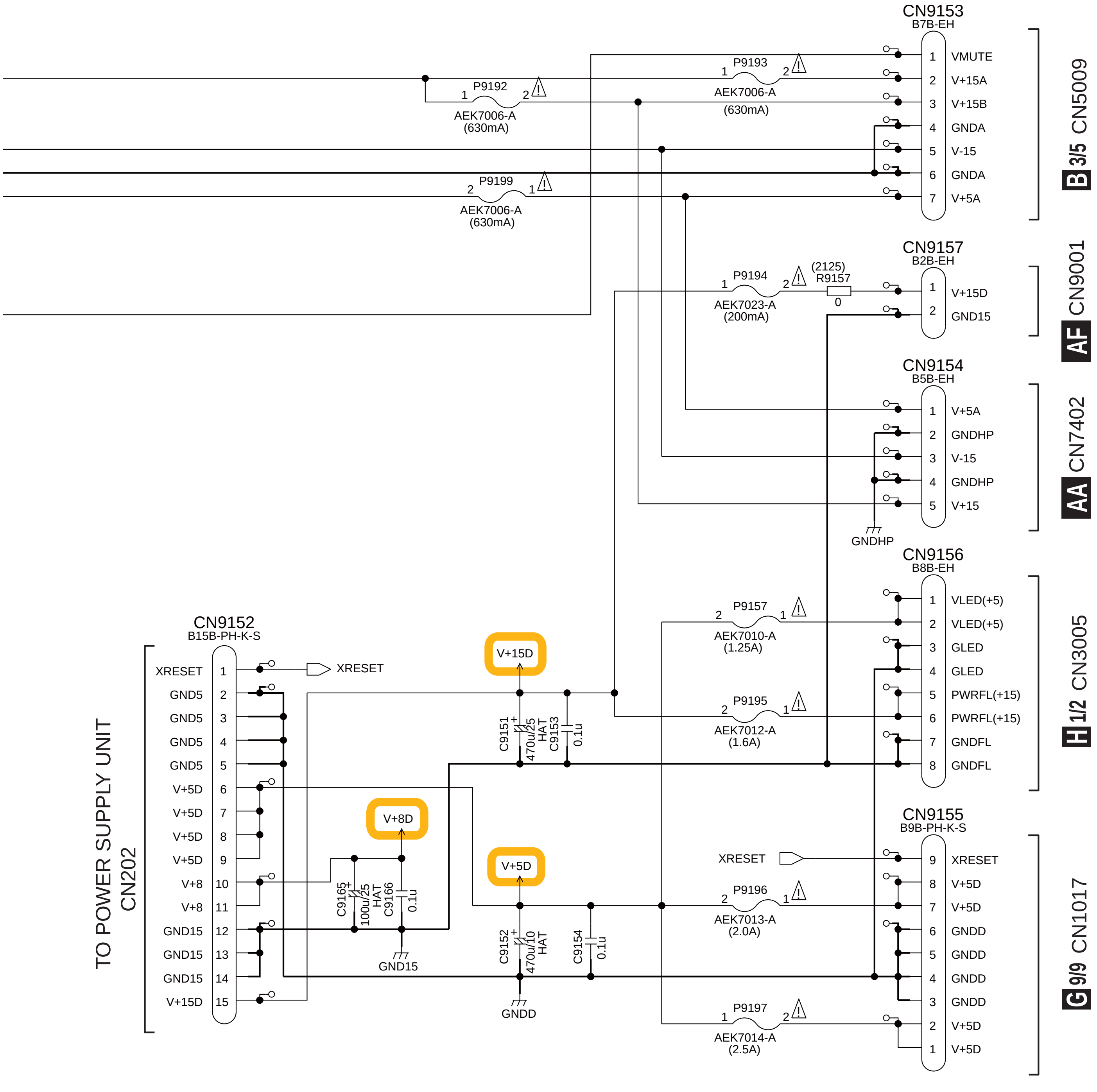
Ref Number	Part Number	Ampere Rating
P9153	AEK7023-A	200mA
P9157	AEK7010-A	1.25A
P9191	AEK7006-A	630mA
P9192	AEK7006-A	630mA
P9193	AEK7006-A	630mA
P9194	AEK7023-A	200mA
P9195	AEK7012-A	1.60A
P9196	AEK7013-A	2.00A
P9197	AEK7014-A	2.50A
P9198	AEK7008-A	800mA
P9199	AEK7006-A	630mA


KN9151
VNF1084-A-T
1
GNDA
STBY
(2125)
R9156
0
GNDA
(2125)
R9155
NM
GNDHP
GND
Notes
NM
STBY
is No Mount
CEHAT***M F
CKSRYB***K F
(2125)
RS1/10S***J
Ω
TO POWER SUPPLY UNIT
CN202

CAUTION

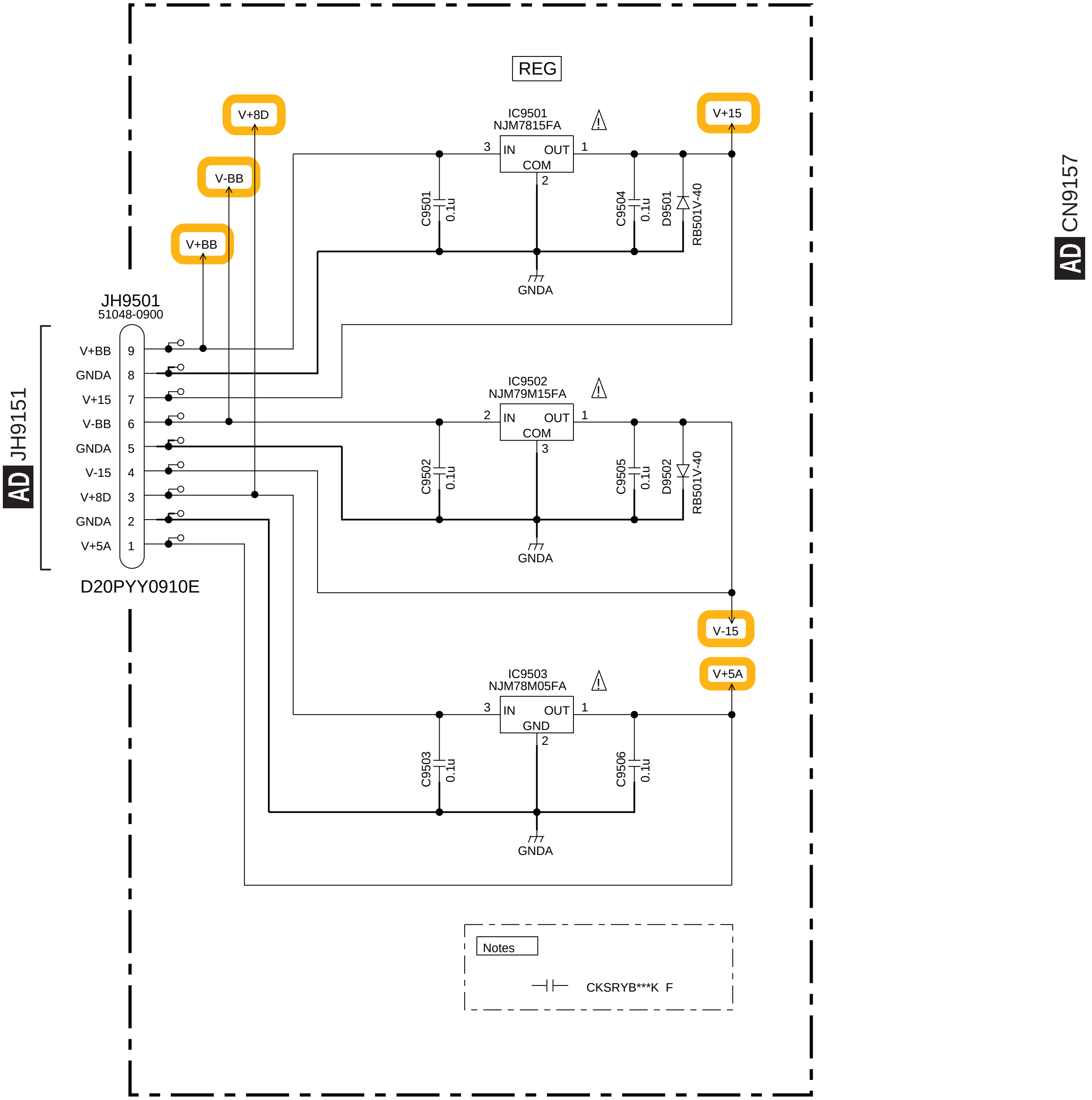
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE NO.

49102.5 MFD. BY LITTELEFUSE INC. FOR P9197
491002. MFD. BY LITTELEFUSE INC. FOR P9196
4911.25 MFD. BY LITTELEFUSE INC. FOR P9157
49101.6 MFD. BY LITTELEFUSE INC. FOR P9195
491.630 MFD. BY LITTELEFUSE INC. FOR P9191,P9192,P9193,P9199
491.800 MFD. BY LITTELEFUSE INC. FOR P9198
491.200 MFD. BY LITTELEFUSE INC. FOR P9153, AND P9194

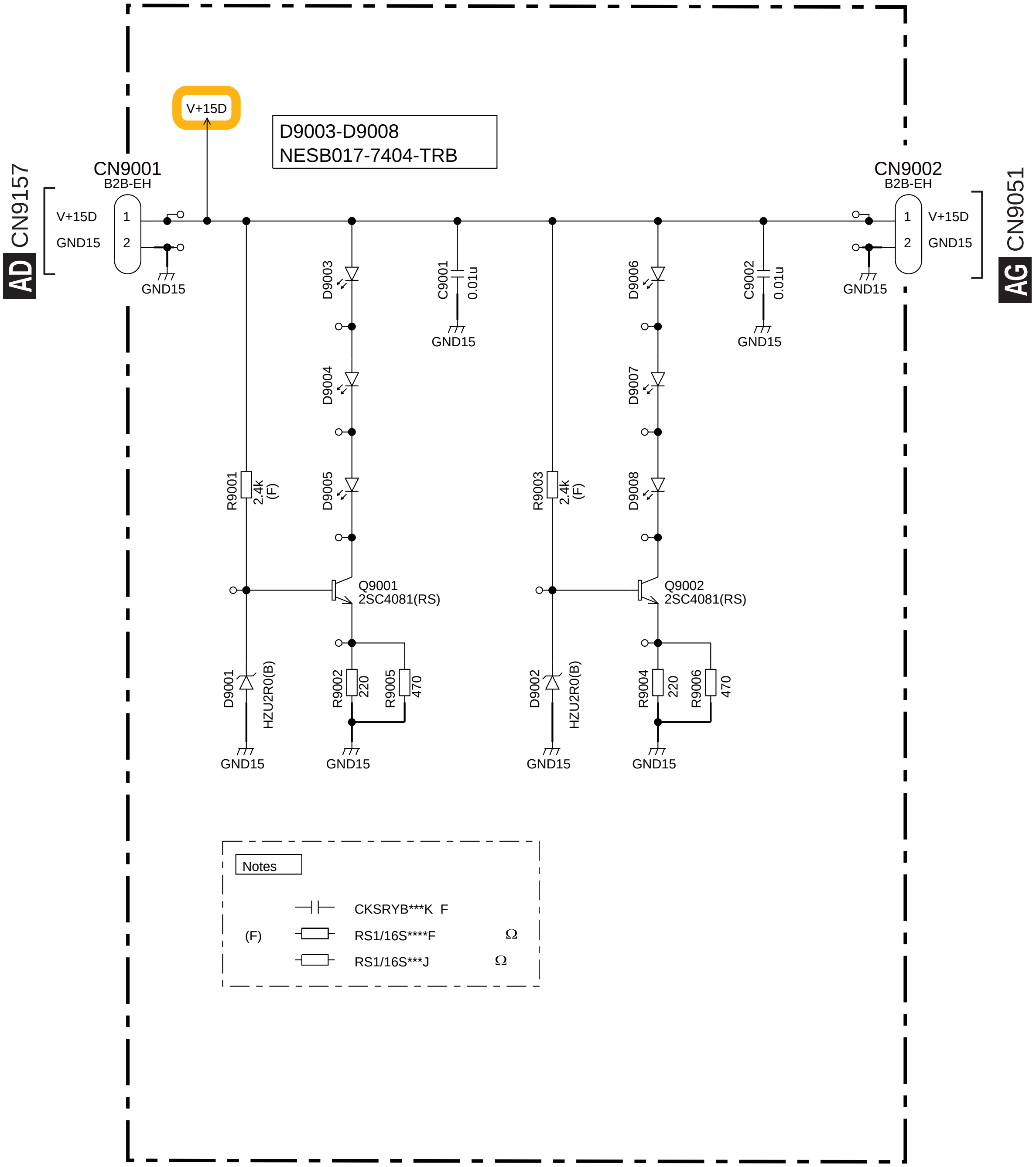

CN9153
B7B-EH
1 VMUTE
2 V+15A
3 V+15B
4 GNDA
5 V-15
6 GNDA
7 V+5A
B 3/5 CN5009
P9193
AEK7006-A
(630mA)
P9192
AEK7006-A
(630mA)
P9199
AEK7006-A
(630mA)
CN9157
B2B-EH
1 V+15D
2 GND15
AF CN9001
P9194
AEK7023-A
(200mA)
(2125)
R9157
0
CN9154
B5B-EH
1 V+5A
2 GNDHP
3 V-15
4 GNDHP
5 V+15
AA CN7402
GNDHP
CN9156
B8B-EH
1 VLED(+5)
2 VLED(+5)
3 GLED
4 GLED
5 PWRFL(+15)
6 PWRFL(+15)
7 GNDFL
8 GNDFL
H 1/2 CN3005
P9157
AEK7010-A
(1.25A)
P9195
AEK7012-A
(1.6A)
CN9155
B9B-PH-K-S
9 XRESET
8 V+5D
7 V+5D
6 GNDD
5 GNDD
4 GNDD
3 GNDD
2 V+5D
1 V+5D
G 9/9 CN1017
XRESET
P9196
AEK7013-A
(2.0A)
P9197
AEK7014-A
(2.5A)
CN9152
B15B-PH-K-S
XRESET 1
GND5 2
GND5 3
GND5 4
GND5 5
V+5D 6
V+5D 7
V+5D 8
V+5D 9
V+8 10
V+8 11
GND15 12
GND15 13
GND15 14
V+15D 15
TO POWER SUPPLY UNIT
CN202
XRESET
V+15D
V+8D
V+5D
C9151
470u/25
HAT
C9153
0.1u
C9165
100u/25
HAT
C9166
0.1u
GND15
C9152
470u/10
HAT
C9154
0.1u
GNDD

10.39 REG and ILMR ASSYS

AE REG ASSY
(DWX2767)

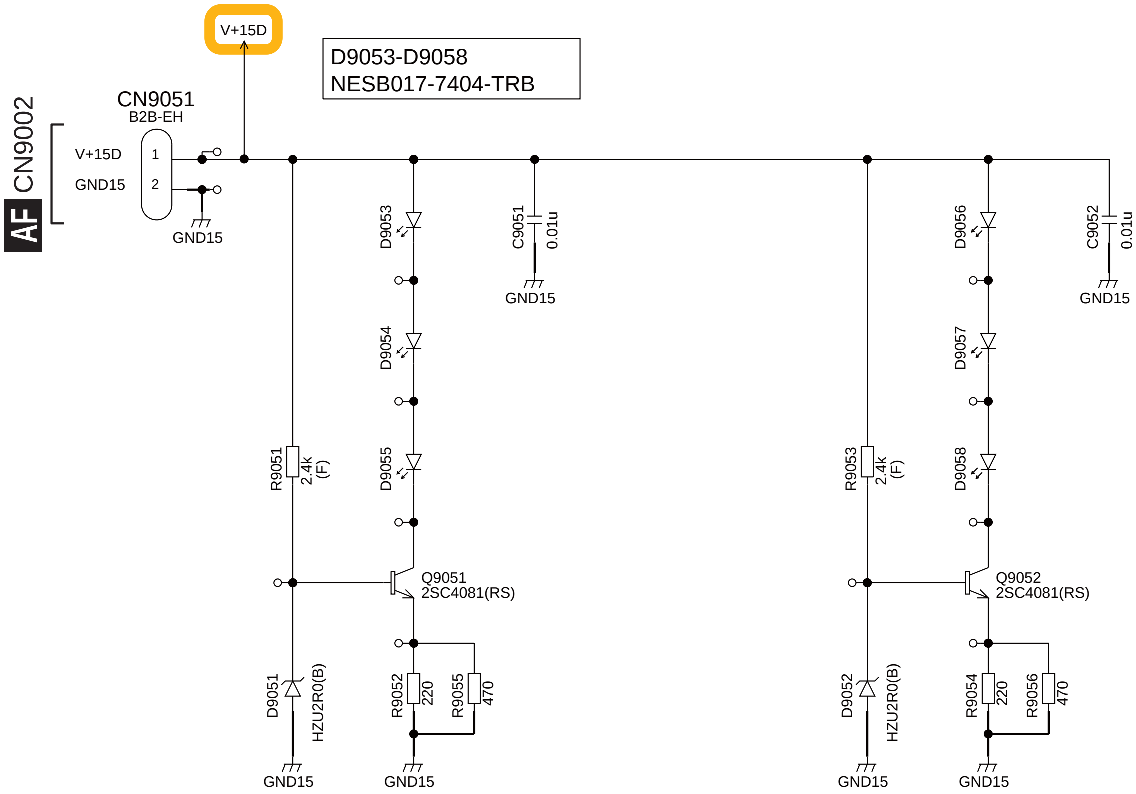

REG
IC9501
NJM7815FA
IN
OUT
COM
3
1
2
C9501
0.1u
C9504
0.1u
D9501
RB501V-40
GNDA
V+8D
V-BB
V+BB
V+15
JH9501
51048-0900
V+BB 9
GNDA 8
V+15 7
V-BB 6
GNDA 5
V-15 4
V+8D 3
GNDA 2
V+5A 1
AD JH9151
D20PYY0910E
IC9502
NJM79M15FA
IN
OUT
COM
2
1
3
C9502
0.1u
C9505
0.1u
D9502
RB501V-40
GNDA
V-15
V+5A
IC9503
NJM78M05FA
IN
OUT
GND
3
1
2
C9503
0.1u
C9506
0.1u
GNDA
Notes
CKSRYB***K F
AD CN9157

AF ILMR ASSY
(DWX2722)


V+15D
D9003-D9008
NESB017-7404-TRB
AD CN9157
CN9001
B2B-EH
V+15D 1
GND15 2
GND15
CN9002
B2B-EH
1 V+15D
2 GND15
AG CN9051
GND15
D9003
D9004
D9005
C9001
0.01u
GND15
D9006
D9007
D9008
C9002
0.01u
GND15
R9001
2.4k
(F)
R9003
2.4k
(F)
Q9001
2SC4081(RS)
Q9002
2SC4081(RS)
D9001
HZU2R0(B)
R9002
220
R9005
470
D9002
HZU2R0(B)
R9004
220
R9006
470
GND15
GND15
GND15
GND15
Notes
CKSRYB***K F
(F)
RS1/16S****F Ω
RS1/16S***J Ω

10.40 ILML ASSY

AG ILML ASSY
(DWX2723)


V+15D
D9053-D9058
NESB017-7404-TRB
CN9051
B2B-EH
AF CN9002
V+15D
GND15
1
2
GND15
D9053
C9051
0.01u
GND15
D9056
C9052
0.01u
GND15
D9054
D9057
R9051
2.4k
(F)
D9055
R9053
2.4k
(F)
D9058
Q9051
2SC4081(RS)
Q9052
2SC4081(RS)
D9051
HZU2R0(B)
R9052
220
R9055
470
D9052
HZU2R0(B)
R9054
220
R9056
470
GND15
GND15
GND15
GND15

Notes

CKSRYB***K F

(F) RS1/16S****F Ω

RS1/16S***J Ω

A

B

C

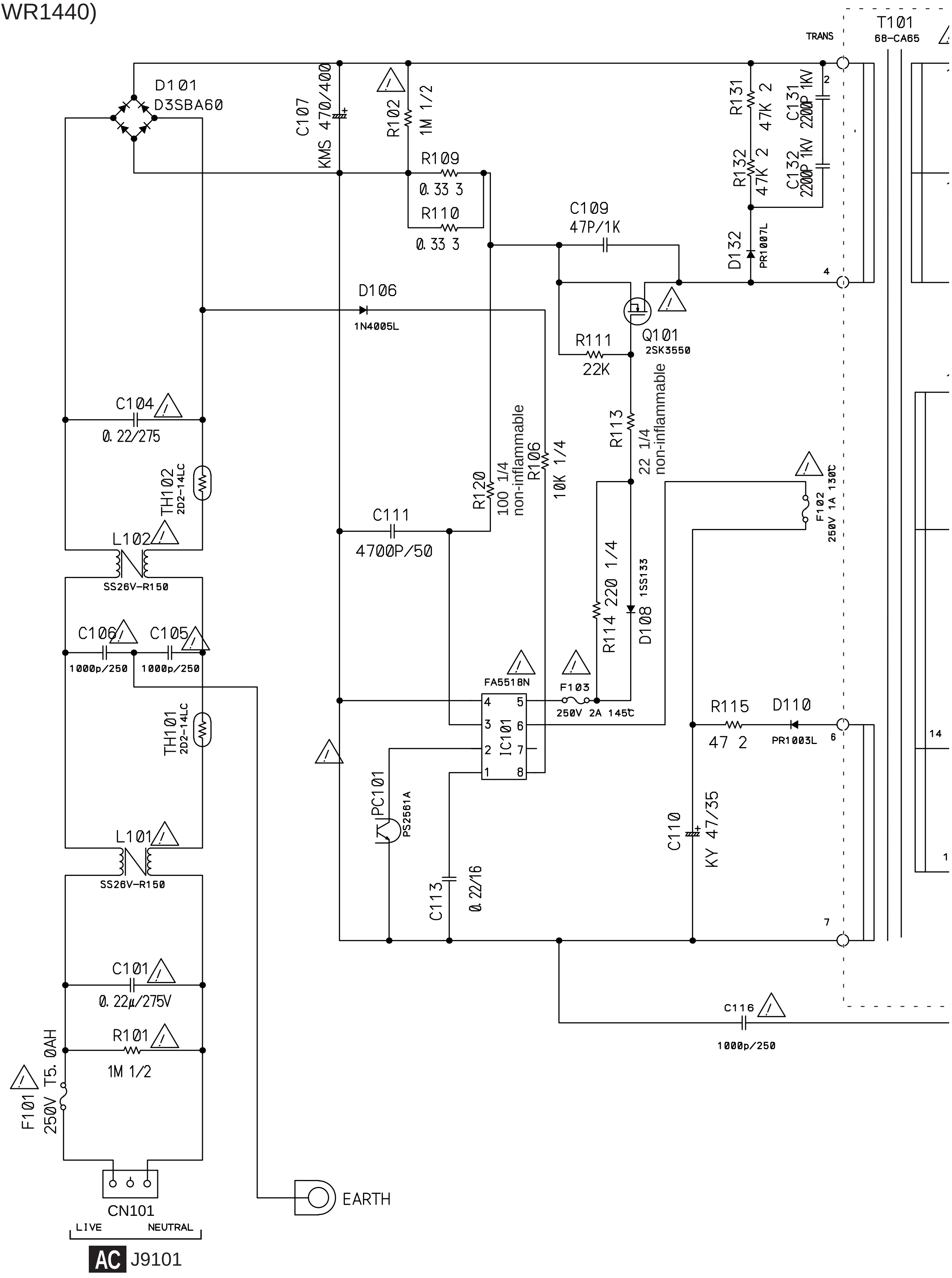
D

E

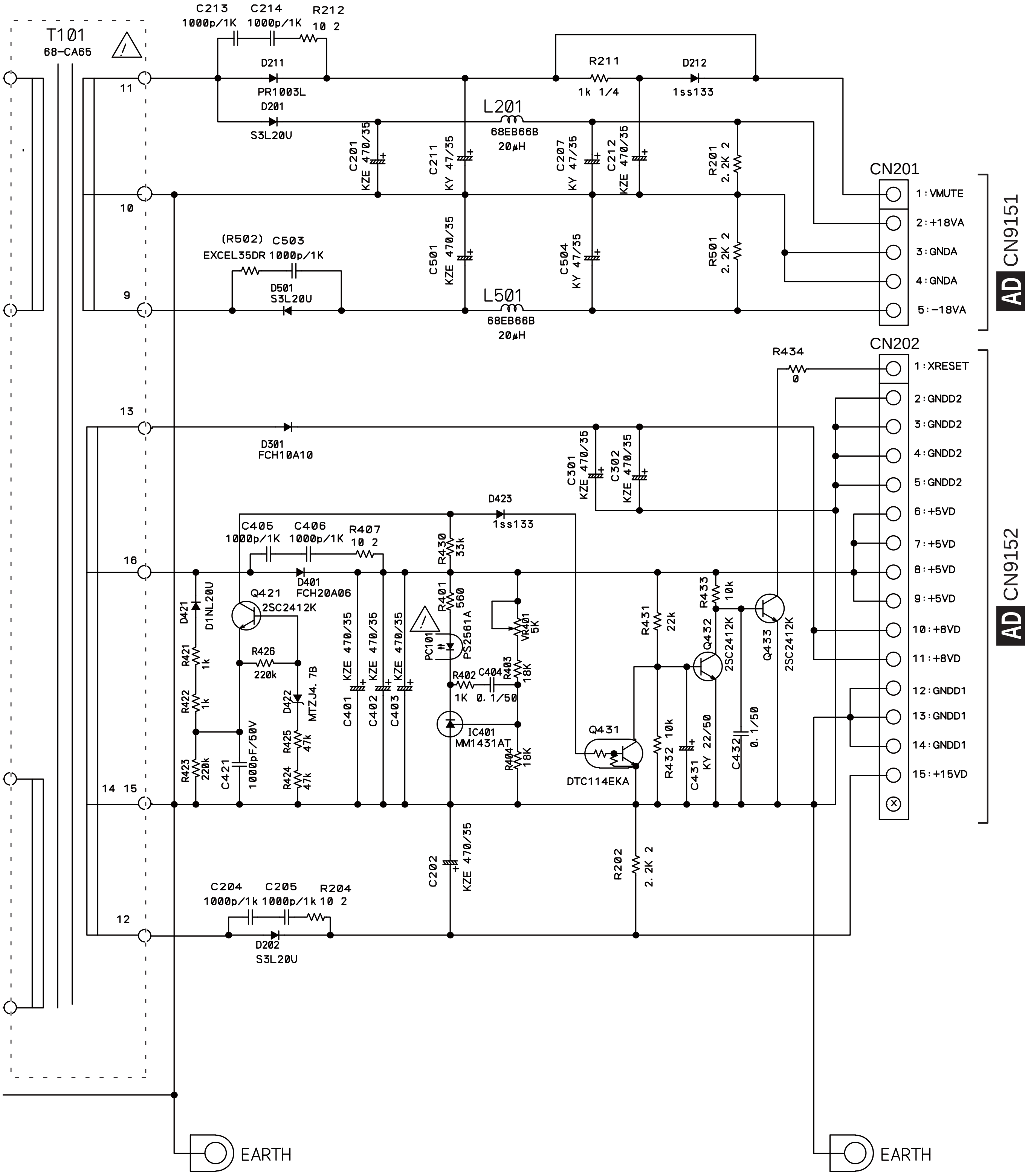
F

10.41 POWER SUPPLY UNIT

POWER SUPPLY UNIT
(DWR1440)



TRANS
T101
68-CA65
D101
D3SBA60
C107
KMS 470/400
R102
1M 1/2
R109
0.33 3
R110
0.33 3
R131
47K 2
C131
2200P 1KV
R132
47K 2
C132
2200P 1KV
C109
47P/1K
D132
PR1007L
2
4
D106
1N4005L
Q101
2SK3550
R111
22K
C104
0.22/275
TH102
2D2-14LC
R120
100 1/4
non-inflammable
R106
10K 1/4
R113
22 1/4
non-inflammable
F102
250V 1A 130℃
L102
SS26V-R150
C111
4700P/50
R114 220 1/4
D108 1SS133
C106
1000p/250
C105
1000p/250
FA5518N
F103
250V 2A 145℃
IC101
4
5
3
6
2
7
1
8
R115
47 2
D110
PR1003L
6
14
TH101
2D2-14LC
PC101
PS2561A
L101
SS26V-R150
C110
KY 47/35
C113
0.22/16
1
7
C101
0.22µ/275V
C116
1000p/250
R101
1M 1/2
F101
250V T5.0AH
EARTH
CN101
LIVE
NEUTRAL
AC J9101
A
B
C
D
E
F


T101
68-CA65
C213
1000p/1K
C214
1000p/1K
R212
10 2
D211
PR1003L
D201
S3L20U
R211
1k 1/4
D212
1ss133
L201
68EB66B
20µH
C201
KZE 470/35
C211
KY 47/35
C207
KY 47/35
C212
KZE 470/35
R201
2.2K 2
CN201
1:VMUTE
2:+18VA
3:GNDA
4:GNDA
5:−18VA
AD CN9151
(R502)
EXCEL35DR
C503
1000p/1K
D501
S3L20U
C501
KZE 470/35
C504
KY 47/35
R501
2.2K 2
L501
68EB66B
20µH
11
10
9
13
16
14 15
12
R434
0
CN202
1:XRESET
2:GNDD2
3:GNDD2
4:GNDD2
5:GNDD2
6:+5VD
7:+5VD
8:+5VD
9:+5VD
10:+8VD
11:+8VD
12:GNDD1
13:GNDD1
14:GNDD1
15:+15VD
AD CN9152
D301
FCH10A10
C301
KZE 470/35
C302
KZE 470/35
D423
1ss133
C405
1000p/1K
C406
1000p/1K
R407
10 2
R430
33k
D401
FCH20A06
Q421
2SC2412K
D421
D1NL20U
R421
1k
R422
1k
R423
220k
R426
220k
D422
MTZJ4.7B
R425
47k
R424
47k
C421
1000pF/50V
C401
KZE 470/35
C402
KZE 470/35
C403
KZE 470/35
R401
560
PC101
PS2561A
VR401
5K
R402
1K
C404
0.1/50
R403
18K
IC401
MM1431AT
R404
18K
Q431
DTC114EKA
R431
22k
R432
10k
R433
10k
Q432
2SC2412K
Q433
2SC2412K
C431
KY 22/50
C432
0.1/50
C202
KZE 470/35
R202
2.2K 2
C204
1000p/1k
C205
1000p/1k
R204
10 2
D202
S3L20U
EARTH
EARTH

10.42 VOLTAGES

Measurement Condition

Input connectors	DVD/LINE	Nothing
	PHONO	Nothing
	DIGITAL IN	Nothing
	MIC1	Nothing
	MIC2	Nothing
Output connectors	MASTER1	Nothing
	MASTER2	Nothing
	REC	Nothing
	BOOTH	Nothing
	DIGITAL OUT	Nothing
	HP	Nothing
MIC	MIC LEVEL1	Max.
	MIC LEVEL2	Max.
	MIC EQ HI	Center
	MIC EQ LOW	Center
	MIC	OFF
FADER ST.		All Ch OFF
HP	HP MONO/STEREO	STEREO
	MIXING	Center
	LEVEL	Max.
CH	INPUT SELECT	All Fully counter clock wise direction
	TRIM	Max.
	EQ HI	Center
	EQ MID	Center
	EQ LOW	Center
	VIDEO TRIM	Center
	CUE	OFF
	FADER	Max.
	CROSS FADER ASSIGN	All Ch THRU
CROSS FADER ASSIGN		Center
MASTER	LEVEL	Max.
	BALANCE	Center
	CUE	OFF
	MONO/STEREO	STEREO
BOOTH MONITOR		Max.
CH FADER CURVE		Center
CRS FADER CURVE		Center
REAR	MASTER ATT	0 dB
	DIGITAL OUT fs(Hz)	96 k
EFFECT	AUTO/TAP	AUTO
	CUE	OFF
	EFFECT	DERAY
	CHANNEL	1
	TIME	-
	ON/OFF	OFF(Lighting)

A AUD1 ASSY

NOTE

NOTE : The following voltages were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

No.	Name	Voltage (V)
1	BOOTH_L+	2.42
2	BOOTH_L-	2.43
3	BOOTH_R+	2.42
4	BOOTH_R-	2.42
5	MIC_1	2.49
6	MIC_2	2.49
7	V3R3	3.32
8	V+5	5
9	V+12	11.97
10	V-15	-15.2
11	V+15	15.08

A 1/5 AUD1 ASSY

IC4003 (LTC1590CS#TRPBF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	-
2	-	10	0
3	0	11	5
4	0	12	5
5	0	13	-
6	0	14	-
7	0	15	5
8	-	16	5

A 1/5 AUD1 ASSY

IC4009 (AK5381VT)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	2.49	9	-
2	2.49	10	-
3	0	11	-
4	2.47	12	-
5	0	13	3.32
6	4.98	14	0
7	3.29	15	0
8	0	16	0

A 2/5 AUD1 ASSY

IC4020 (LTC1590CS#TRPBF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	-
2	-	10	0
3	0	11	5
4	0	12	5
5	0	13	-
6	0	14	-
7	0	15	5
8	-	16	5

A 2/5 AUD1 ASSY

IC4017 (CS5361-KS-TBB)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	3.31	13	3.3
2	0	14	0
3	-	15	0
4	-	16	-
5	-	17	-
6	3.3	18	0
7	0	19	5
8	3.3	20	-
9	-	21	-
10	0	22	2.5
11	3.3	23	0
12	0	24	4.92

A 4/5 AUD1 ASSY

IC4044 (AK4382-AVT-TBB)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	2.42
2	-	10	2.42
3	-	11	2.42
4	-	12	2.42
5	4.99	13	0
6	0	14	4.98
7	0	15	0
8	0	16	0

A 4/5 AUD1 ASSY

IC4048 (NJM5532DD)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	0	8	15

A 4/5 AUD1 ASSY

IC4047 (NJM5532DD)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	0	8	15

B AUD2 ASSY

NOTE

No.	Name	Voltage (V)
1	REC_R+	2.47
2	REC_R-	2.47
3	REC_L+	2.461
4	REC_L-	2.46
5	MASTER_L+	2.563
6	MASTER_L-	2.565
7	MASTER_R+	2.565
8	MASTER_R-	2.56
9	VR_MUTE	3.29
10	V+15B	14.954
11	V+5	4.958
12	V-15	-15.135
13	V+15	14.973
14	VMUTE	18.2
15	ATT	0

B 1/5 AUD2 ASSY

IC5014 (NJM2114D)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	-15.24	8	15.01

B 1/5 AUD2 ASSY

IC5011 (LTC1590CS#TRPBF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	-
2	-	10	0
3	0	11	5.01
4	0	12	4.92
5	0	13	-
6	0	14	-
7	0	15	5.01
8	-	16	5.01

B 1/5 AUD2 ASSY

IC5010 (LTC1590CS#TRPBF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	-
2	-	10	0
3	0	11	4.97
4	0	12	4.94
5	0	13	-
6	0	14	-
7	0	15	4.95
8	-	16	5.01

B 1/5 AUD2 ASSY

IC5015 (NJM2114D)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	-15.24	8	15.01

B 1/5 AUD2 ASSY

IC5004 (AK4393VF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0	15	0
2	3.3	16	0
3	-	17	4.99
4	3.3	18	4.99
5	-	19	0
6	-	20	2.56
7	-	21	2.57
8	0	22	2.57
9	3.31	23	2.56
10	3.32	24	2.59
11	0	25	3.3
12	0	26	3.3
13	3.32	27	0
14	0	28	0

B 2/5 AUD2 ASSY

IC5019 (AK4382AVT)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	2.47
2	-	10	2.47
3	-	11	2.56
4	-	12	2.56
5	5	13	0
6	0	14	5
7	0	15	0
8	0	16	0

G MAIN ASSY NOTE

No.	Name	Voltage (V)
1	SCRST	3.332
2	V+1R25D	1.259
3	RST	3.326
4	CONF_DONE	-
5	ARST	3.3
6	V+3R3D	3.335
7	VRST	3.302
8	CLK66M	-
9	DONE	2.549
10	FRST	3.311
11	V+1R4D	1.396
12	V+1R2D	1.189
13	CLK24M	-
14	CLK28M	-
15	V+1R8D	1.82
16	V+2R5D	1.822
17	VREF	1.261
18	CLK-33M	-
19	CLK-50M	-
20	CLK-27M	-

H SCPU ASSY NOTE

No.	Name	Voltage (V)
1	V3R3	3.29
2	DCLK0	-
3	HSYNC	3.3
4	VSYNC	-
5	L/R	3.28
6	OUT DDEN	-
7	FPGA_RX	-
8	FPGA_SCK	-
9	SUB_CPU_INT	-
10	V3R3	3.32
11	GNDFL	0
12	PWRFL	-
13	GLED	0
14	VLED	5.09

U DIO2 ASSY NOTE

No.	Name	Voltage (V)
1	SYNC_OUTPUT	-
2	CH3_DIGI_INPUT	1.61

V DIO1 ASSY NOTE

No.	Name	Voltage (V)
1	MIDI	-
2	V+5	5.11
3	V3R3	3.31
4	DIGI_4896_IN	0
5	DIGITAL_OUT	-

V 1/2 DIO1 ASSY

IC6505 (AD1895AYRS)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1		15	0
2	-	16	0
3		17	0
4	IC6503 10	18	0
5	IC6503 11	19	0
6		20	0
7	3.33	21	0
8	0	22	3.32
9	0	23	-
10	0	24	-
11	0	25	-
12	0	26	0
13	3.34	27	0
14	0	28	0

V 1/2 DIO1 ASSY

IC6516 (AK4114VQ)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	1.62	25	-
2	0	26	-
3	1.62	27	-
4	0	28	-
5	1.62	29	-
6	0	30	-
7	1.62	31	5.12
8	0	32	-
9	0	33	3.33
10	0	34	3.33
11	3.33	35	3.33
12	0	36	0
13	3.31	37	0
14	0	38	3.33
15	0	39	1.2
16	-	40	1.2
17	0	41	3.33
18	0	42	1.62
19	0	43	3.33
20	0	44	1.61
21	3.3	45	3.33
22	0	46	1.62
23	3.31	47	3.33
24	-	48	1.62

V 1/2 DIO1 ASSY

IC6503 (AK4117VF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	1.2	13	0
2	3.3	14	-
3	1.62	15	0
4	0	16	0
5	1.63	17	-
6	3.3	18	3.33
7	0	19	3.33
8	0	20	-
9	3.3	21	0
10	-	22	3.3
11	-	23	3.3
12	0	24	0

V 2/2 DIO1 ASSY

IC6514 (TC74HCU04AF)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0	8	-
2	5.11	9	-
3	0	10	-
4	5.11	11	-
5	-	12	-
6	-	13	-
7	0	14	5.12

V 2/2 DIO1 ASSY

IC6517 (AD1895AYRS)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0	15	0
2	-	16	0
3	-	17	0
4	3.31	18	0
5	-	19	0
6	-	20	0
7	3.33	21	0
8	0	22	3.31
9	0	23	IC6516 28
10	0	24	IC6516 24
11	0	25	IC6516 26
12	0	26	3.33
13	3.3	27	3.32
14	0	28	0

Y USB1 ASSY NOTE

No.	Name	Voltage (V)
1	D+USB1	-
2	D-USB1	-

AA HAMP ASSY NOTE

No.	Name	Voltage (V)
1	V+5D	5.01
2	V-15A	-15.24
3	HP_R-	2.44
4	HP_R+	2.45
5	HP_L-	2.44
6	HP_L+	2.44
7	V+15A	15

AA HAMP ASSY

IC7404 (AK4382AVT)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	9	2.44
2	-	10	2.45
3	-	11	2.44
4	-	12	2.44
5	3.31	13	0
6	0	14	4.99
7	0	15	-
8	0	16	-

AA HAMP ASSY

IC7406 (NJM5532AD)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	7.49
4	-15.26	8	15.06

AA HAMP ASSY

IC7407 (NJM2068M)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-	5	-
2	-	6	-
3	-	7	-
4	0	8	15.05

NOTE : The following voltages were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

10.43 WAVEFORMS

Measuring Conditions (Analog)

Measure CH	IN CH	IN LEVEL (TRIM MAX)	IN FREQ	RL	
PHONO	CH1	-46 dBV	1 kHz		
DVD/LINE	CH1	-6 dBV	1 kHz		
BOOTH	CH1 SELECT	-6 dBV	1 kHz	10 kohm	
REC	CH1 SELECT	-6 dBV	1 kHz	10 kohm	
MASTER 1, 2	CH1 SELECT	-6 dBV	1 kHz	10 kohm	
MIC 1, 2	MIC 1, 2	-52 dBV	1 kHz		
HP	CH1	-6 dBV	1 kHz	32 ohm	

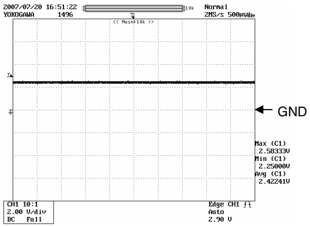
Set as follows except for designation ;

INPUT CH: CH1	C.F ASSIGN: Nothing
CH1 FADER: Max.	CH FADER CURVE: Center

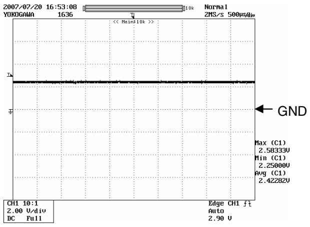
A AUD1 ASSY

NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

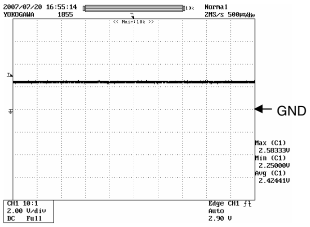
① **BOOTH_L+**
V: 2 V/div. H: 500 uS/div.



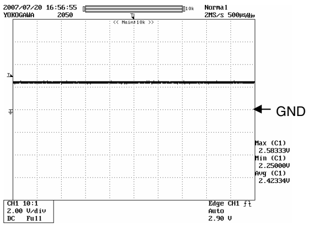
② **BOOTH_L-**
V: 2 V/div. H: 500 uS/div.



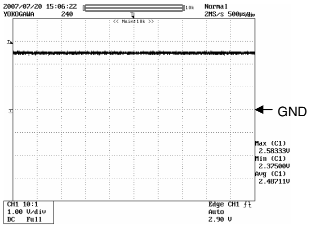
③ **BOOTH_R+**
V: 2 V/div. H: 500 uS/div.



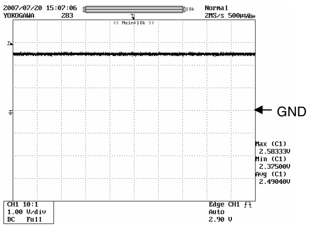
④ **BOOTH_R-**
V: 2 V/div. H: 500 uS/div.



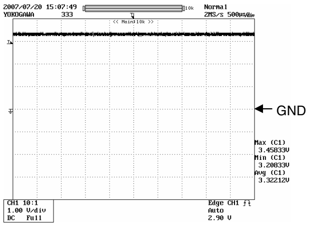
⑤ **MIC_1**
V: 1 V/div. H: 500 uS/div.



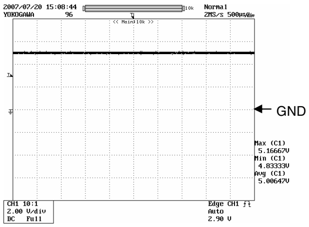
⑥ **MIC_2**
V: 1 V/div. H: 500 uS/div.



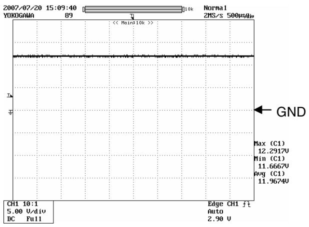
⑦ **V3R3**
V: 1 V/div. H: 500 uS/div.



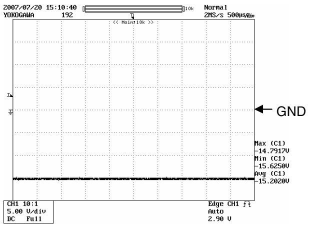
⑧ **V+5**
V: 2 V/div. H: 500 uS/div.



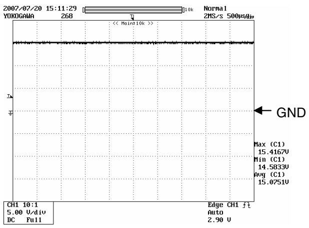
⑨ **V+12**
V: 5 V/div. H: 500 uS/div.



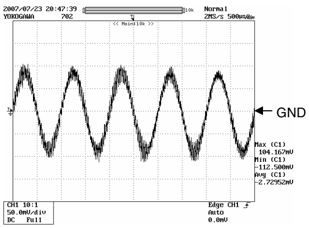
⑩ **V-15**
V: 5 V/div. H: 500 uS/div.



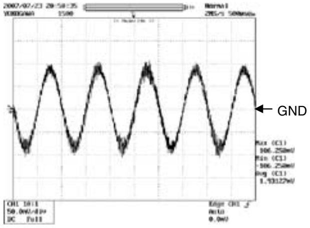
⑪ **V+15**
V: 5 V/div. H: 500 uS/div.



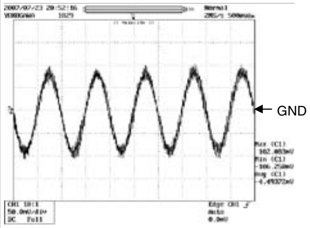
⑫ **IC4003 - pin1**
V: 50 mV/div. H: 500 uS/div.



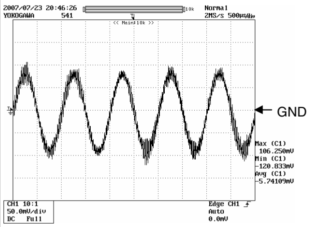
⑬ **IC4003 - pin2**
V: 50 mV/div. H: 500 uS/div.



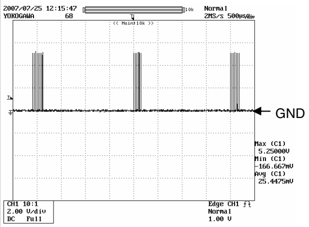
⑭ **IC4003 - pin8**
V: 50 mV/div. H: 500 uS/div.



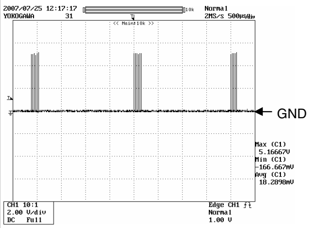
⑮ **IC4003 - pin9**
V: 50 mV/div. H: 500 uS/div.



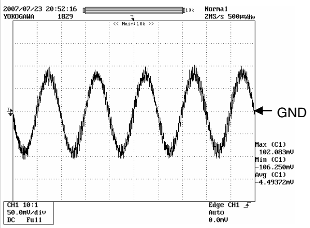
⑯ **IC4003 - pin13**
V: 2 V/div. H: 500 uS/div.



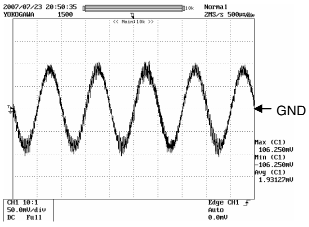
⑰ **IC4003 - pin14**
V: 2 V/div. H: 500 uS/div.



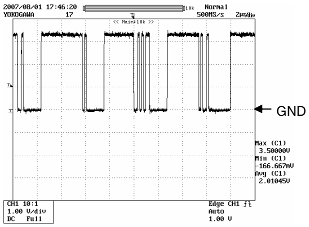
⑱ **IC4004 - pin1**
V: 50 mV/div. H: 500 uS/div.



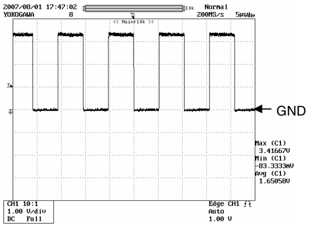
⑲ **IC4004 - pin7**
V: 50 mV/div. H: 500 uS/div.



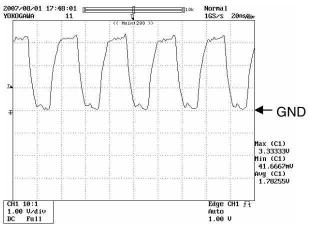
⑳ **IC4009 - pin9**
V: 1 V/div. H: 2 uS/div.



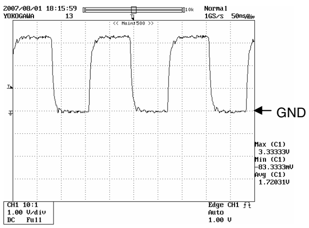
㉑ **IC4009 - pin10**
V: 1 V/div. H: 5 uS/div.



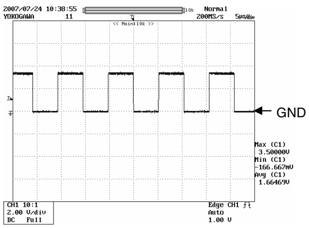
㉒ **IC4009 11 pin**
V: 1 V/div. H: 20 nS/div.



㉓ **IC4009 - pin12**
V: 1 V/div. H: 50 nS/div.

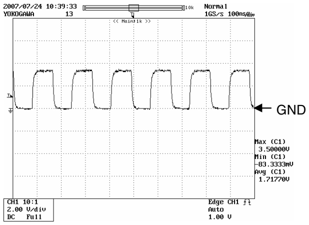


㉔ **IC4017 - pin3**
V: 2 V/div. H: 5 uS/div.

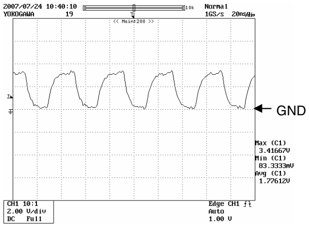


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

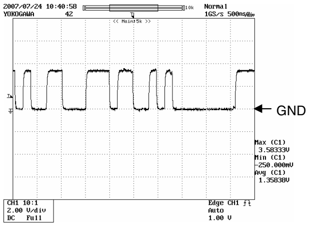
㉕ IC4017 - pin4
V: 2 V/div. H: 100 nS/div.



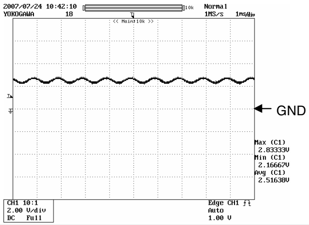
㉖ IC4017 - pin5
V: 2 V/div. H: 20 nS/div.



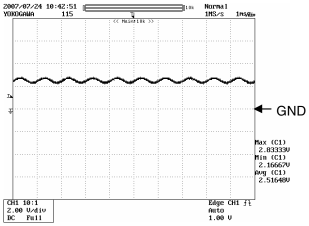
㉗ IC4017 - pin9
V: 2 V/div. H: 500 nS/div.



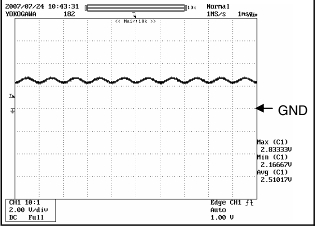
㉘ IC4017 - pin16
V: 2 V/div. H: 1 mS/div.



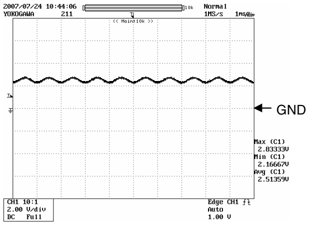
㉙ IC4017 - pin17
V: 2 V/div. H: 1 mS/div.



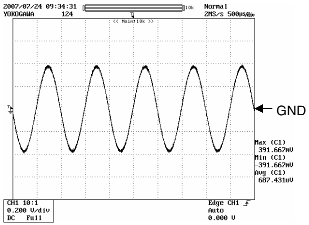
㉚ IC4017 - pin20
V: 2 V/div. H: 1 mS/div.



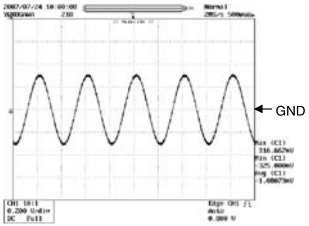
㉛ IC4017 - pin21
V: 2 V/div. H: 1 mS/div.



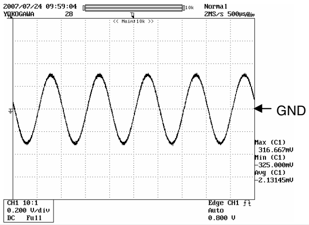
㉜ IC4020 - pin1
V: 0.2 V/div. H: 500 uS/div.



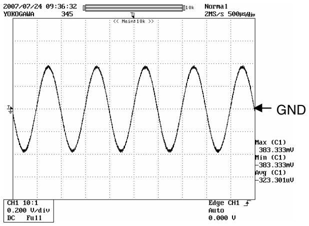
㉝ IC4020 - pin2
V: 0.2 V/div. H: 500 uS/div.



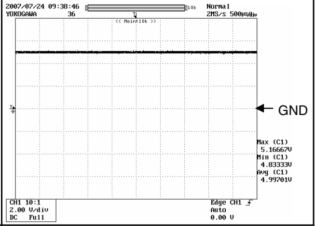
㉞ IC4020 - pin8
V: 0.2 V/div. H: 500 uS/div.



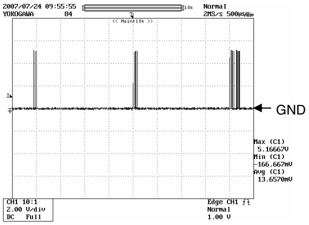
㉟ IC4020 - pin9
V: 0.2 V/div. H: 500 uS/div.



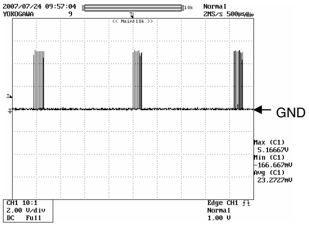
㊱ IC4020 - pin11
V: 2 V/div. H: 500 uS/div.



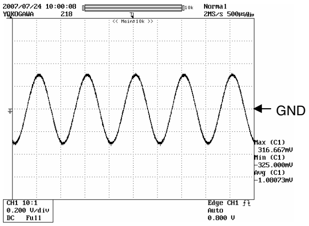
㊲ IC4020 - pin13
V: 2 V/div. H: 500 uS/div.



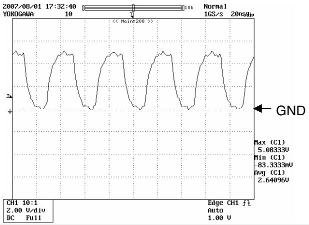
㊳ IC4020 - pin14
V: 2 V/div. H: 500 uS/div.



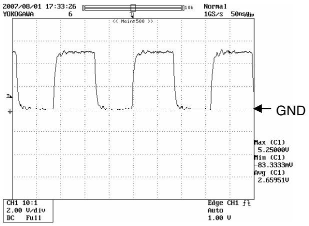
㊴ IC4021 - pin7
V: 0.2 V/div. H: 500 uS/div.



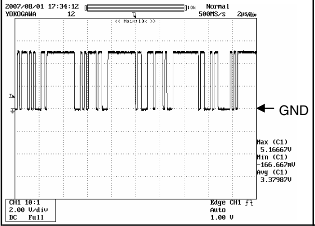
㊵ IC4044 - pin1
V: 2 V/div. H: 20 nS/div.



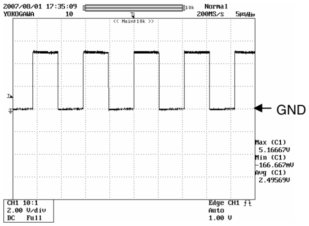
㊶ IC4044 - pin2
V: 2 V/div. H: 50 nS/div.



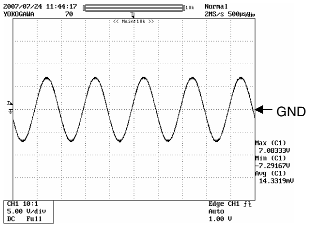
㊷ IC4044 - pin3
V: 2 V/div. H: 2 uS/div.



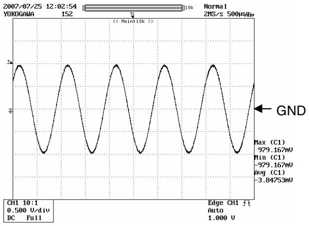
㊸ IC4044 - pin4
V: 2 V/div. H: 5 uS/div.



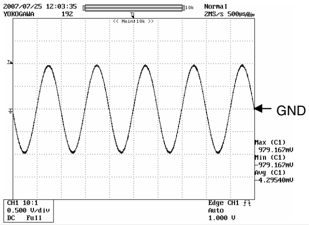
㊹ IC4047 - pin1
V: 5 V/div. H: 500 uS/div.



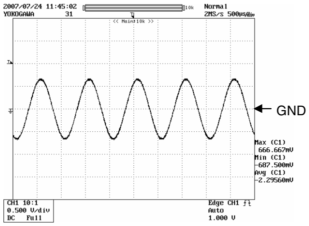
㊺ IC4047 - pin2
V: 0.5 V/div. H: 500 uS/div.



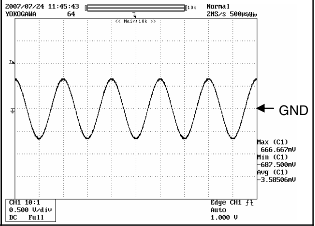
㊻ IC4047 - pin3
V: 0.5 V/div. H: 500 uS/div.



㊼ IC4047 - pin5
V: 0.5 V/div. H: 500 uS/div.

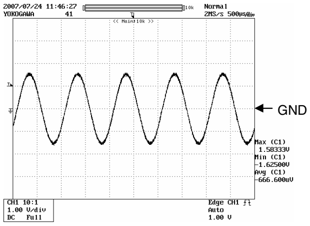


㊽ IC4047 - pin6
V: 0.5 V/div. H: 500 uS/div.

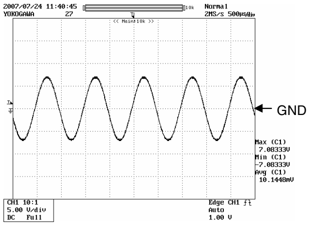


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

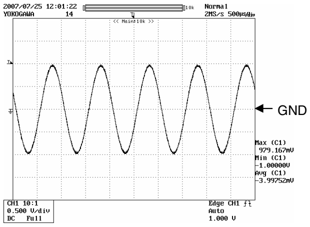
(49) IC4047 - pin7
V: 1 V/div. H: 500 uS/div.



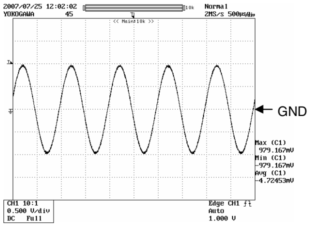
(50) IC4048 - pin1
V: 5 V/div. H: 500 uS/div.



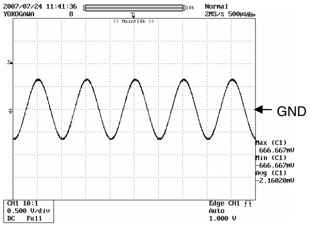
(51) IC4048 - pin2
V: 0.5 V/div. H: 500 uS/div.



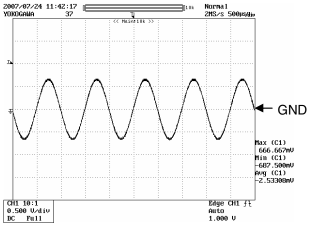
(52) IC4048 - pin3
V: 0.5 V/div. H: 500 uS/div.



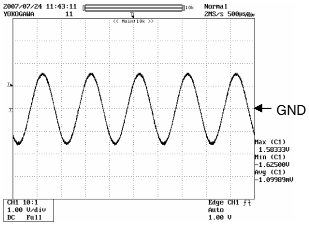
(53) IC4048 - pin5
V: 0.5 V/div. H: 500 uS/div.



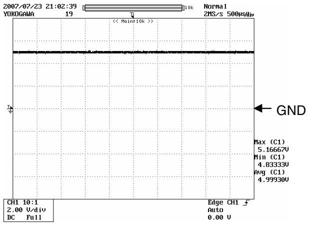
(54) IC4048 - pin6
V: 0.5 V/div. H: 500 uS/div.



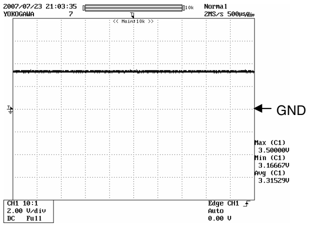
(55) IC4048 - pin7
V: 1 V/div. H: 500 uS/div.



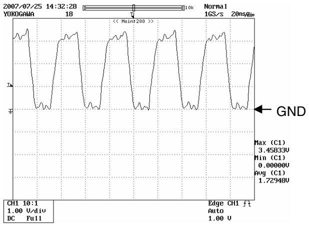
(56) IC4049 - pin4
V: 2 V/div. H: 500 uS/div.



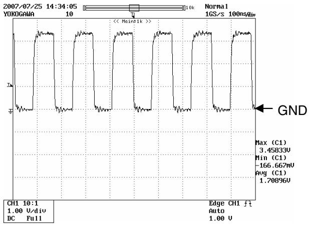
(57) IC4050 - pin4
V: 2 V/div. H: 500 uS/div.



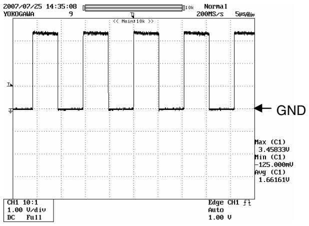
(58) IC4051 - pin4
V: 1 V/div. H: 20 nS/div.



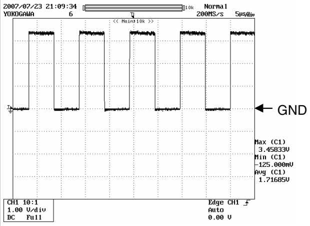
(59) IC4052 - pin4
V: 1 V/div. H: 100 nS/div.



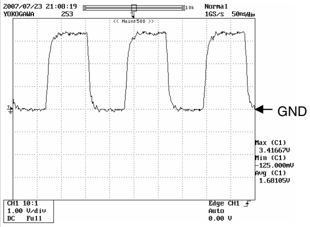
(60) IC4053 - pin4
V: 1 V/div. H: 5 uS/div.



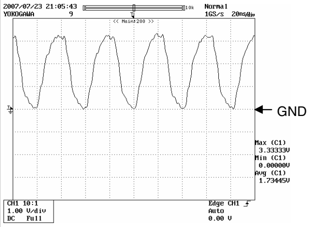
(61) CN4015 - pin10
V: 1 V/div. H: 5 uS/div.



(62) CN4015 - pin12
V: 1 V/div. H: 50 nS/div.



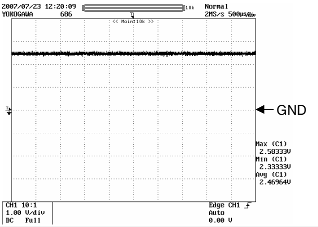
(63) CN4015 - pin14
V: 1 V/div. H: 20 nS/div.



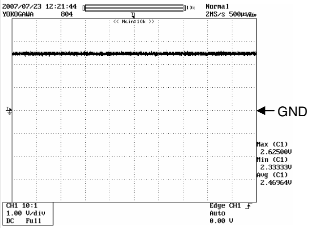
B AUD2 ASSY

NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

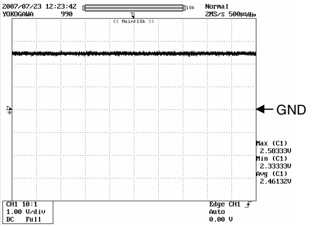
① **REC_R+**
V: 1 V/div. H: 500 uS/div.



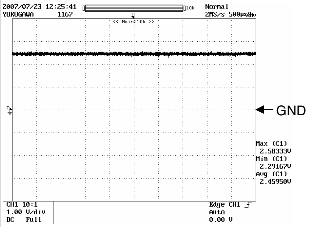
② **REC_R-**
V: 1 V/div. H: 500 uS/div.



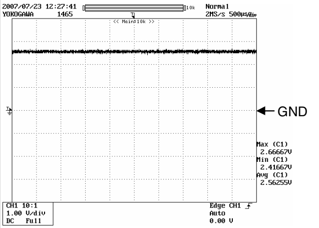
③ **REC_L+**
V: 1 V/div. H: 500 uS/div.



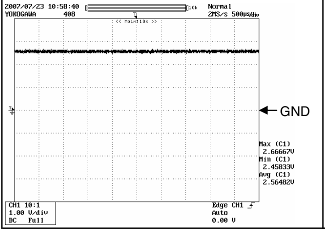
④ **REC_L-**
V: 1 V/div. H: 500 uS/div.



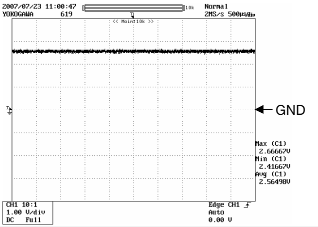
⑤ **MASTER_L+**
V: 1 V/div. H: 500 uS/div.



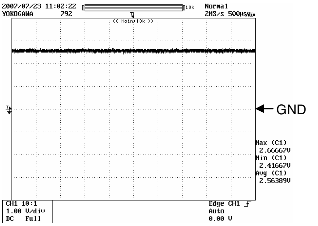
⑥ **MASTER_L-**
V: 1 V/div. H: 500 uS/div.



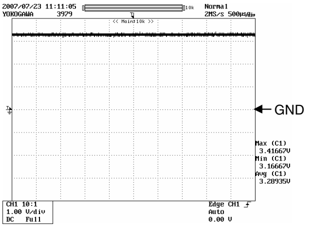
⑦ **MASTER_R+**
V: 1 V/div. H: 500 uS/div.



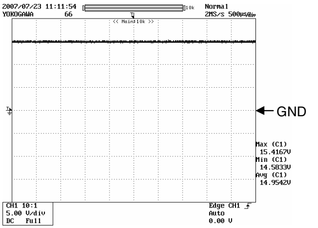
⑧ **MASTER_R-**
V: 1 V/div. H: 500 uS/div.



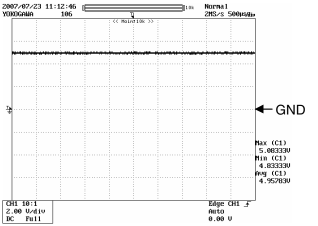
⑨ **VR_MUTE**
V: 1 V/div. H: 500 uS/div.



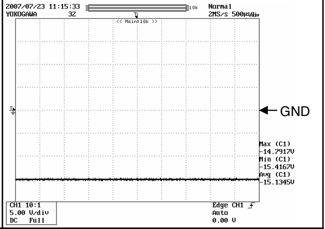
⑩ **V+15B**
V: 5 V/div. H: 500 uS/div.



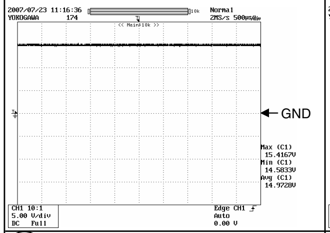
⑪ **V+5**
V: 2 V/div. H: 500 uS/div.



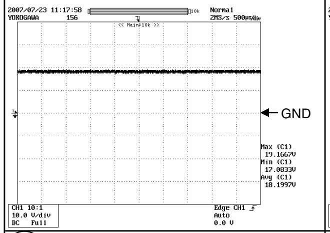
⑫ **V-15**
V: 5 V/div. H: 500 uS/div.



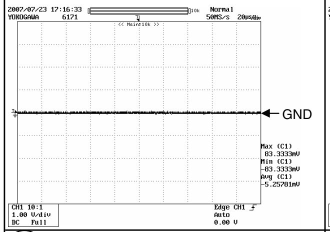
⑬ **V+15**
V: 5 V/div. H: 500 uS/div.



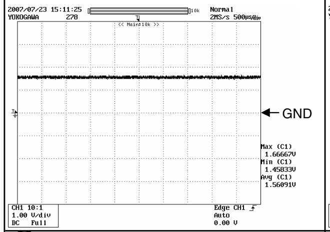
⑭ **VMUTE**
V: 10 V/div. H: 500 uS/div.



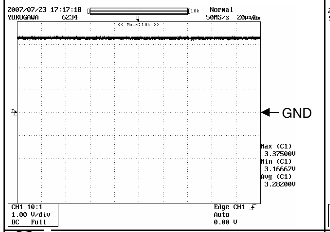
⑮ **ATT (0dB)**
V: 1 V/div. H: 20 uS/div.



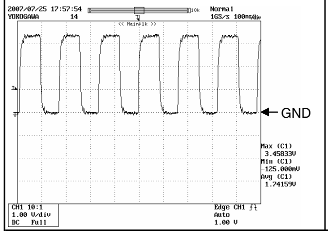
⑮ **ATT (-3dB)**
V: 1 V/div. H: 500 uS/div.



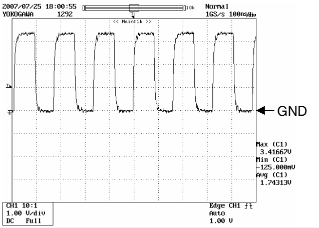
⑮ **ATT (-6dB)**
V: 1 V/div. H: 20 uS/div.



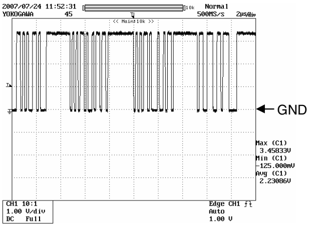
⑯ **IC5004 - pin3**
V: 1 V/div. H: 100 nS/div.



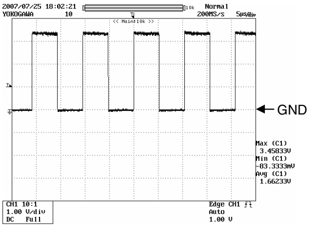
⑰ **IC5004 - pin5**
V: 1 V/div. H: 100 nS/div.



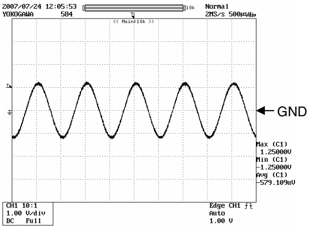
⑱ **IC5004 - pin6**
V: 1 V/div. H: 2 uS/div.



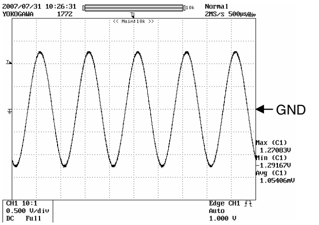
⑲ **IC5004 - pin7**
V: 1 V/div. H: 5 uS/div.



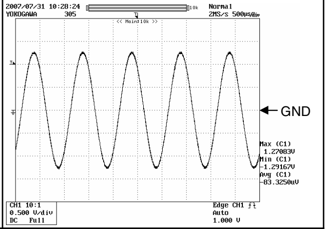
⑳ **IC5010 - pin1**
V: 1 V/div. H: 500 uS/div.



㉑ **IC5010 - pin2**
V: 0.5 V/div. H: 500 uS/div.

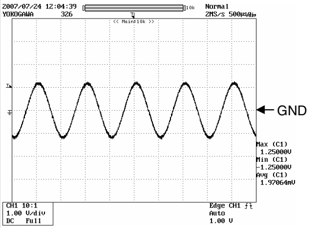


㉒ **IC5010 - pin8**
V: 0.5 V/div. H: 500 uS/div.

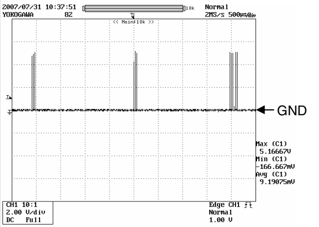


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

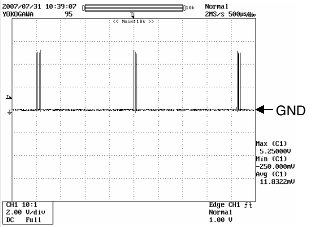
㉓ IC5010 - pin9
V: 1 V/div. H: 500 uS/div.



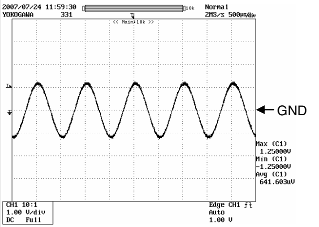
㉔ IC5010 - pin13
V: 2 V/div. H: 500 uS/div.



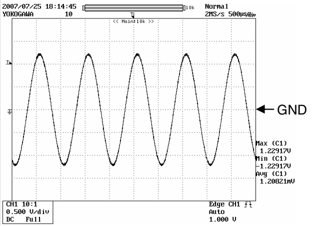
㉕ IC5010 - pin14
V: 2 V/div. H: 500 uS/div.



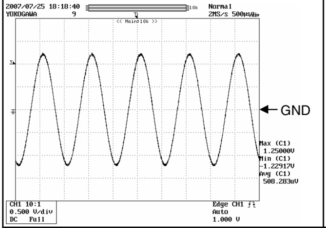
㉖ IC5011 - pin1
V: 1 V/div. H: 500 uS/div.



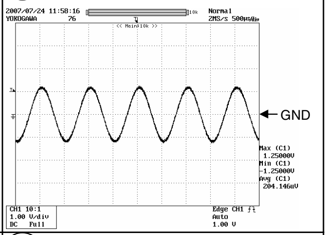
㉗ IC5011 - pin2
V: 0.5 V/div. H: 500 uS/div.



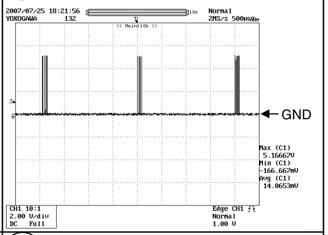
㉘ IC5011 - pin8
V: 0.5 V/div. H: 500 uS/div.



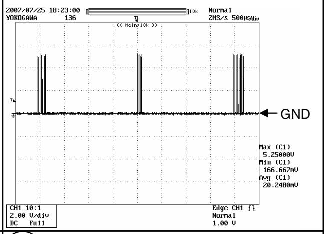
㉙ IC5011 - pin9
V: 1 V/div. H: 500 uS/div.



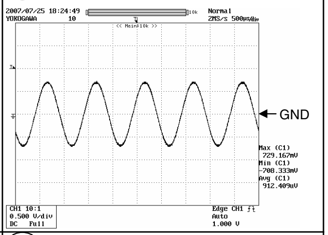
㉚ IC5011 - pin13
V: 2 V/div. H: 500 uS/div.



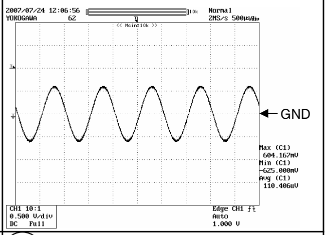
㉛ IC5011 - pin14
V: 2 V/div. H: 500 uS/div.



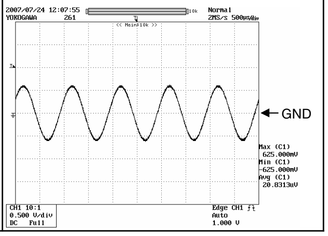
㉜ IC5011 - pin16
V: 0.5 V/div. H: 500 uS/div.



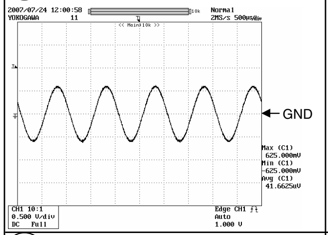
㉝ IC5012 - pin1
V: 0.5 V/div. H: 500 uS/div.



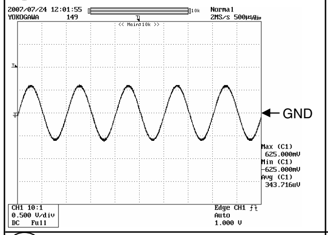
㉞ IC5012 - pin7
V: 0.5 V/div. H: 500 uS/div.



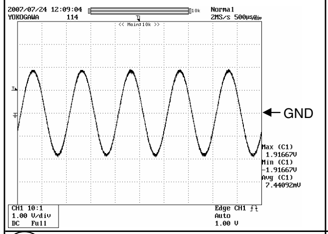
㉟ IC5013 - pin1
V: 0.5 V/div. H: 500 uS/div.



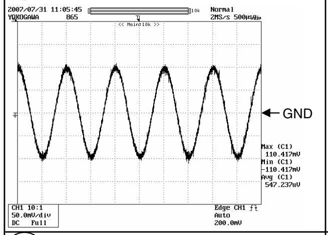
㊱ IC5013 - pin7
V: 0.5 V/div. H: 500 uS/div.



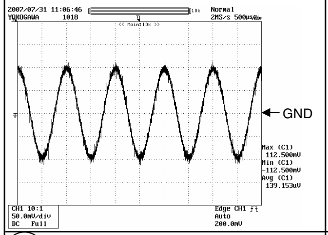
㊲ IC5014 - pin1
V: 1 V/div. H: 500 uS/div.



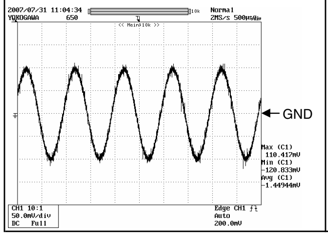
㊳ IC5014 - pin2
V: 50 mV/div. H: 500 uS/div.



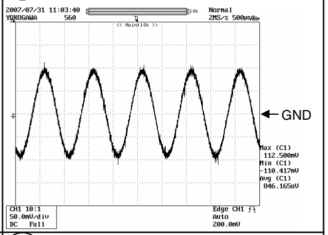
㊴ IC5014 - pin3
V: 50 mV/div. H: 500 uS/div.



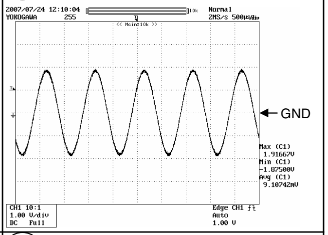
㊵ IC5014 - pin5
V: 50 mV/div. H: 500 uS/div.



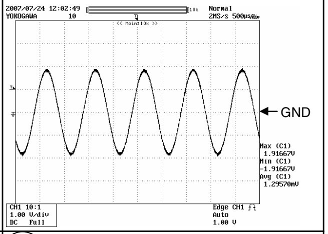
㊶ IC5014 - pin6
V: 50 mV/div. H: 500 uS/div.



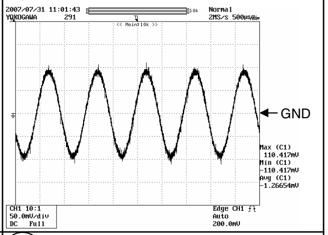
㊷ IC5014 - pin7
V: 1 V/div. H: 500 uS/div.



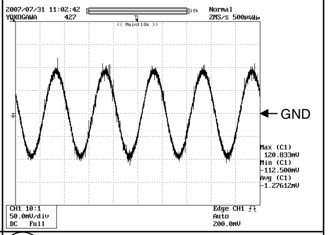
㊸ IC5015 - pin1
V: 1 V/div. H: 500 uS/div.



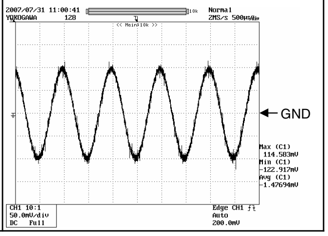
㊹ IC5015 - pin2
V: 50 mV/div. H: 500 uS/div.



㊺ IC5015 - pin3
V: 50 mV/div. H: 500 uS/div.

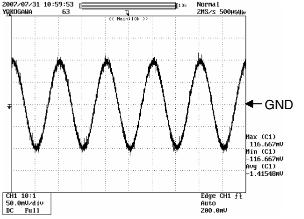


㊻ IC5015 - pin5
V: 50 mV/div. H: 500 uS/div.

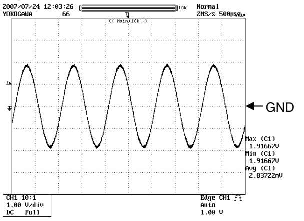


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

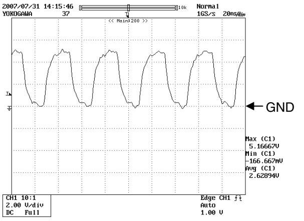
(47) IC5015 - pin6
V: 50 mV/div. H: 500 uS/div.



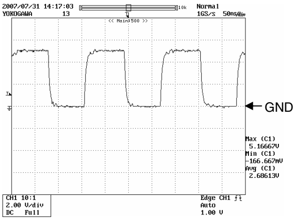
(48) IC5015 - pin7
V: 1 V/div. H: 500 uS/div.



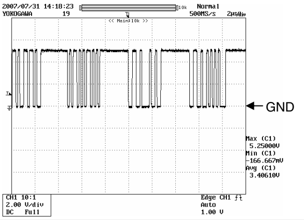
(49) IC5019 - pin1
V: 2 V/div. H: 20 nS/div.



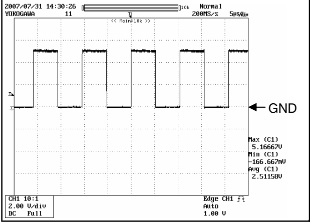
(50) IC5019 - pin2
V: 2 V/div. H: 50 nS/div.



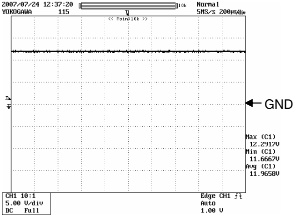
(51) IC5019 - pin3
V: 2 V/div. H: 2 uS/div.



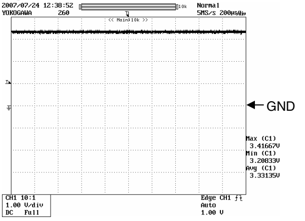
(52) IC5019 - pin4
V: 2 V/div. H: 5 uS/div.



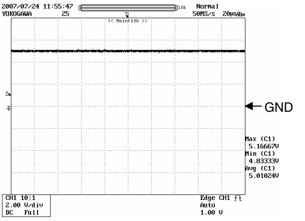
(53) IC5030 - pin1
V: 5 V/div. H: 200 uS/div.



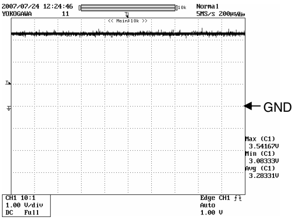
(54) IC5031 - pin3
V: 1 V/div. H: 200 uS/div.



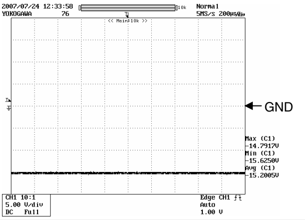
(55) IC5063 - pin4
V: 2 V/div. H: 20 uS/div.



(56) CN5004 - pin15
V: 1 V/div. H: 200 uS/div.

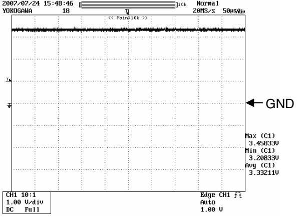


(57) R5188 <=> R5187
V: 5 V/div. H: 200 uS/div.

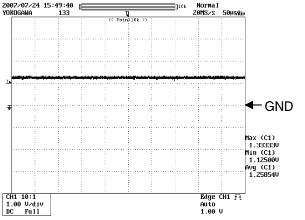


G MAIN ASSY

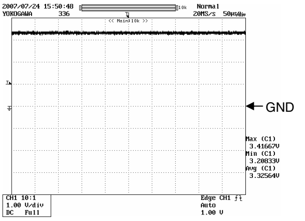
(1) SCRST
V: 1 V/div. H: 50 uS/div.



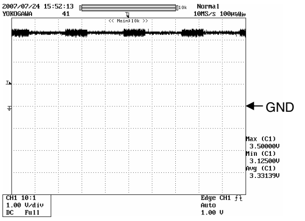
(2) V+1R25D
V: 1 V/div. H: 50 uS/div.



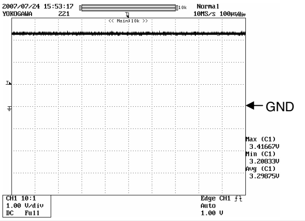
(3) RST
V: 1 V/div. H: 50 uS/div.



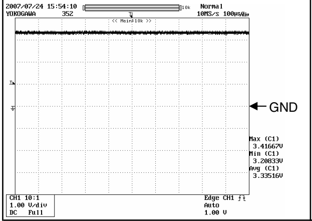
(4) CONF±DONE
V: 1 V/div. H: 100 uS/div.



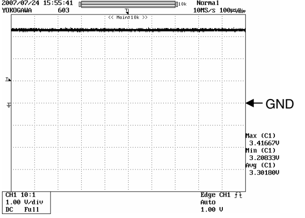
(5) ARST
V: 1 V/div. H: 100 uS/div.



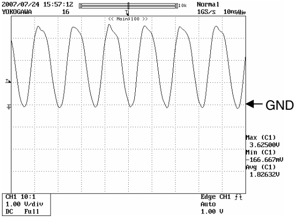
(6) V+3R3D
V: 1 V/div. H: 100 uS/div.



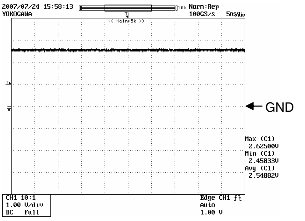
(7) VRST
V: 1 V/div. H: 200 nS/div.



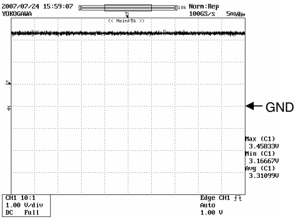
(8) CLK66M
V: 1 V/div. H: 10 nS/div.



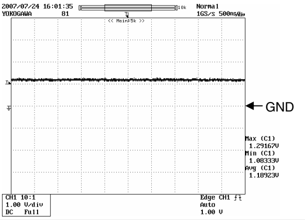
(9) DONE
V: 1 V/div. H: 5 nS/div.



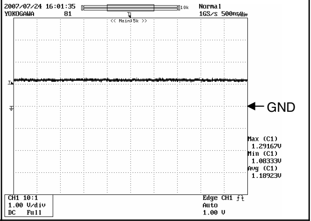
(10) FRST
V: 1 V/div. H: 5 nS/div.



(11) V+1R4D
V: 1 V/div. H: 5 nS/div.



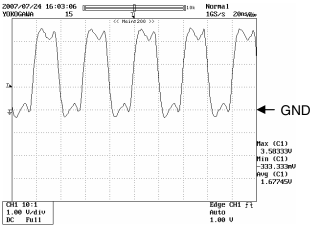
(12) V+1R2D
V: 1 V/div. H: 500 nS/div.



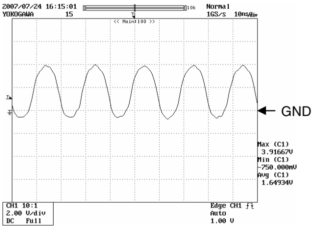
NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

H SCPU ASSY

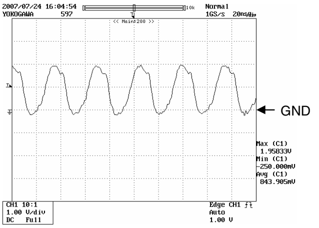
⑬ **CLK24M**
V: 1 V/div. H: 20 nS/div.



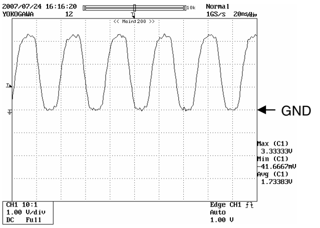
⑲ **CLK-50M**
V: 2 V/div. H: 10 nS/div.



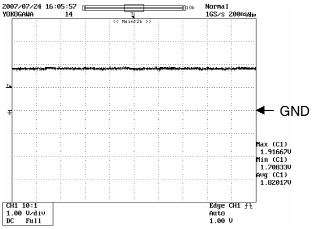
⑭ **CLK28M**
V: 1 V/div. H: 20 nS/div.



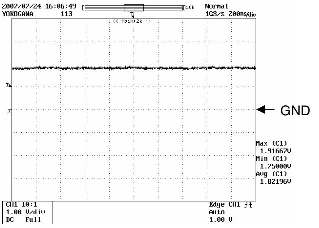
⑳ **CLK-27M**
V: 1 V/div. H: 20 nS/div.



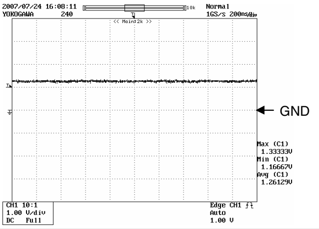
⑮ **V+1R8D**
V: 1 V/div. H: 200 nS/div.



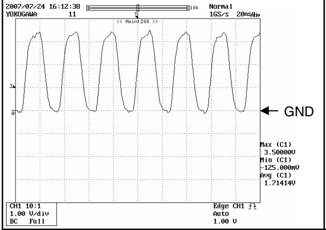
⑯ **V+2R5D**
V: 1 V/div. H: 200 nS/div.



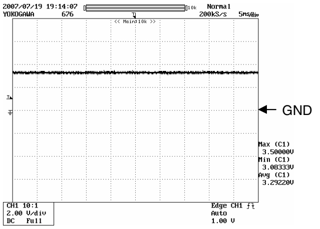
⑰ **VREF**
V: 1 V/div. H: 200 nS/div.



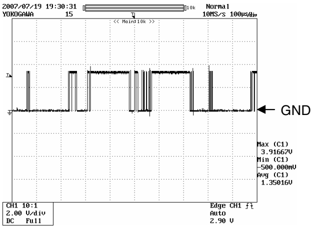
⑱ **CLK-33M**
V: 1 V/div. H: 20 nS/div.



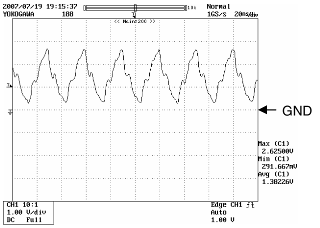
① **V3R3**
V: 2 V/div. H: 5 mS/div.



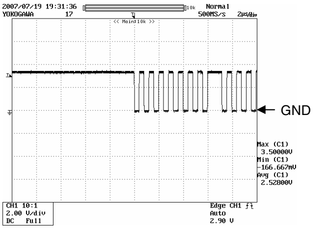
⑦ **FPGA_RX**
V: 2 V/div. H: 100 uS/div.



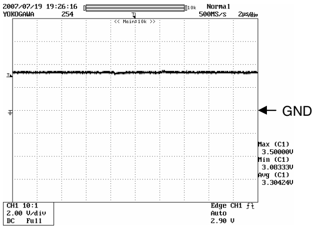
② **DCLK0**
V: 1 V/div. H: 20 nS/div.



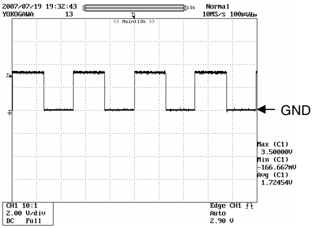
⑧ **FPGA_SCK**
V: 2 V/div. H: 2 uS/div.



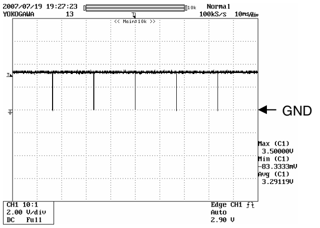
③ **HSYNC**
V: 2 V/div. H: 2 uS/div.



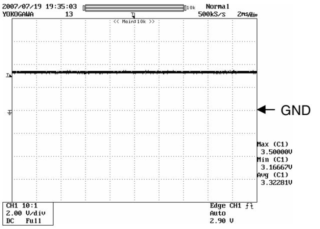
⑨ **SUB_CPU_INT**
V: 2 V/div. H: 100 uS/div.



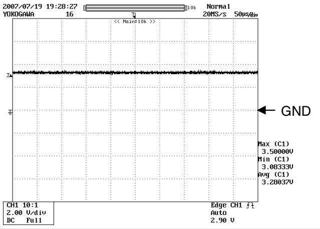
④ **VSYNC**
V: 2 V/div. H: 10 mS/div.



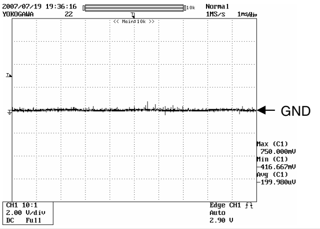
⑩ **V3R3**
V: 2 V/div. H: 2 mS/div.



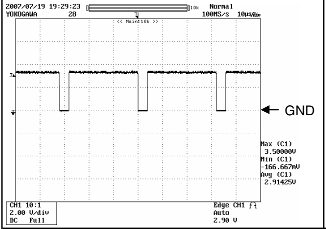
⑤ **L/R**
V: 2 V/div. H: 50 uS/div.



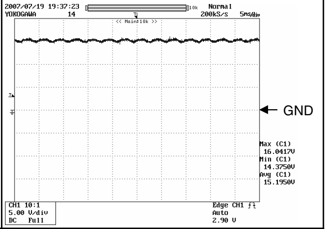
⑪ **GNDFL**
V: 2 V/div. H: 1 mS/div.



⑥ **OUT DDEN**
V: 2 V/div. H: 10 uS/div.

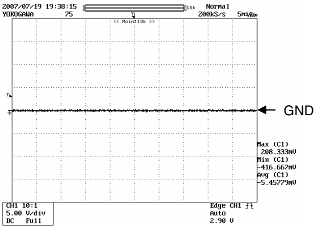


⑫ **PWRFL**
V: 5 V/div. H: 5 mS/div.

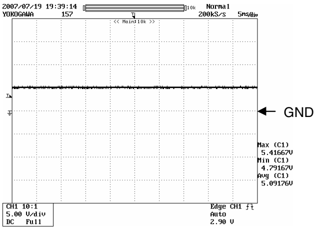


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

13 **GLED**
V: 5 V/div. H: 5 mS/div.

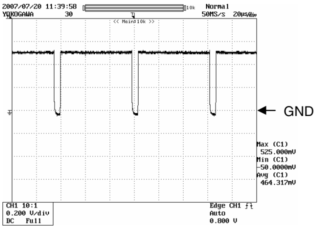


14 **VLED**
V: 5 V/div. H: 5 mS/div.

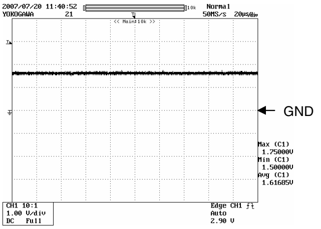


U DIO2 ASSY

1 **SYNC_OUTPUT**
V: 0.2 V/div. H: 20 uS/div.

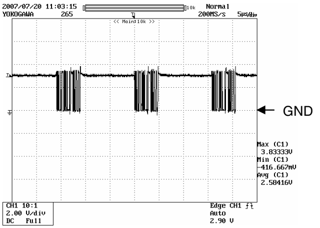


2 **CH3_DIGI_INPUT**
V: 1 V/div. H: 20 uS/div.

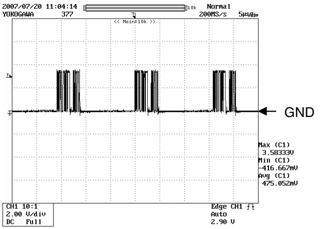


Y USB1 ASSY

1 **D+USB1**
V: 2 V/div. H: 5 uS/div.

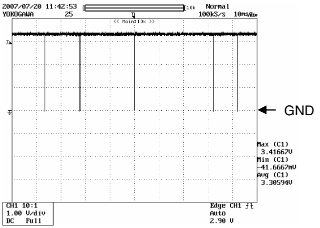


2 **D-USB1**
V: 2 V/div. H: 5 uS/div.

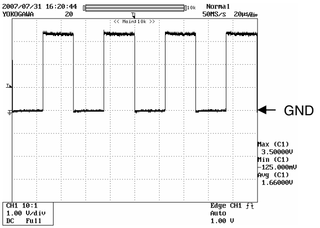


V DIO1 ASSY

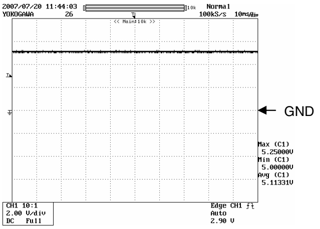
1 **MIDI**
V: 1 V/div. H: 10 mS/div.



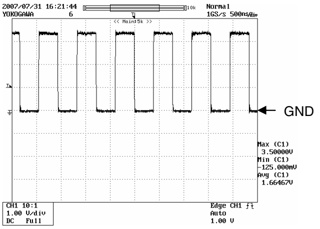
6 **IC6503 - pin10**
V: 1 V/div. H: 20 uS/div.



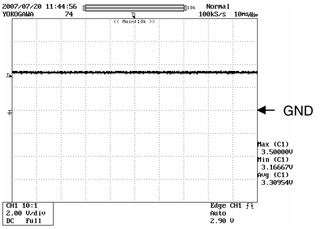
2 **V+5**
V: 2 V/div. H: 10 mS/div.



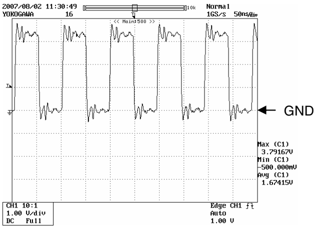
7 **IC6503 - pin11**
V: 1 V/div. H: 500 nS/div.



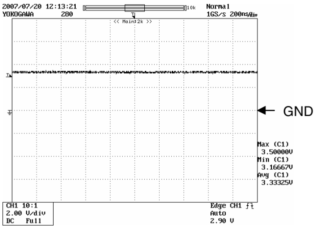
3 **V3R3**
V: 2 V/div. H: 10 mS/div.



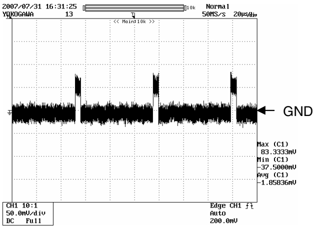
8 **IC6503 - pin14**
V: 1 V/div. H: 50 nS/div.



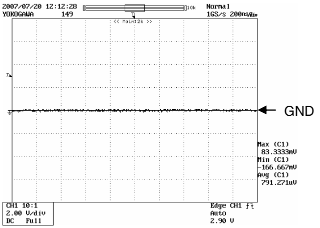
4 **DIGI_4896_IN(48)**
V: 2 V/div. H: 200 nS/div.



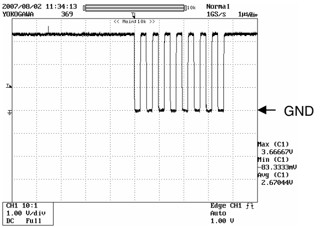
9 **IC6503 - pin17**
V: 50 mV/div. H: 20 uS/div.



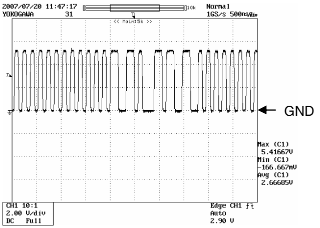
4 **DIGI_4896_IN(96)**
V: 2 V/div. H: 200 nS/div.



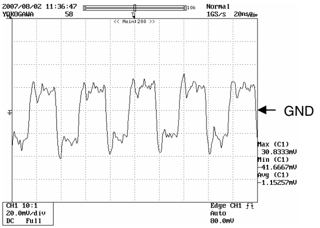
10 **IC6503 - pin20**
V: 1 V/div. H: 1 uS/div.



5 **DIGITAL_OUT**
V: 2 V/div. H: 500 nS/div.

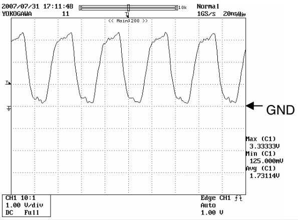


11 **IC6505 - pin1**
V: 20 mV/div. H: 20 nS/div.

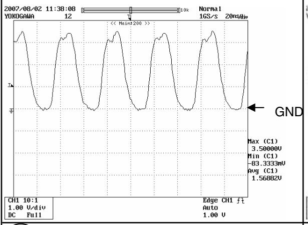


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

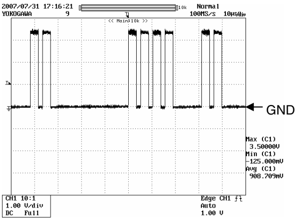
⑫ IC6505 - pin2
V: 1 V/div. H: 20 nS/div.



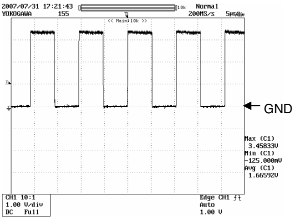
⑬ IC6505 - pin3
V: 1 V/div. H: 20 nS/div.



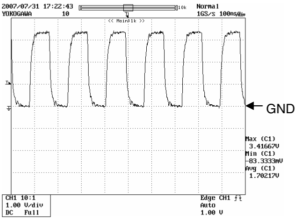
⑭ IC6505 - pin23
V: 1 V/div. H: 10 uS/div.



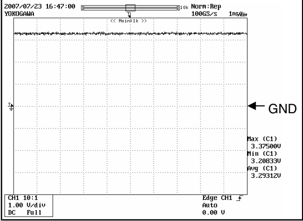
⑮ IC6505 - pin24
V: 1 V/div. H: 5 uS/div.



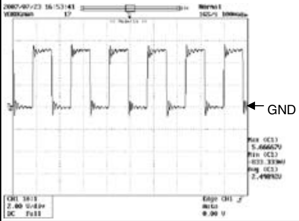
⑯ IC6505 - pin25
V: 1 V/div. H: 100 nS/div.



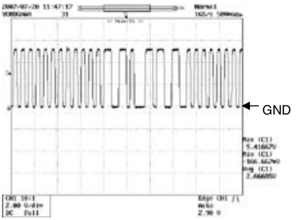
⑰ IC6510 - pin4
V: 1 V/div. H: 1 nS/div.



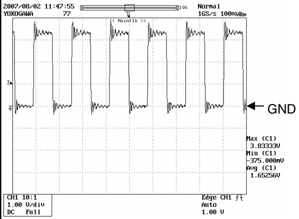
⑱ IC6514 - pin 5/9/11/13
V: 2 V/div. H: 100 nS/div.



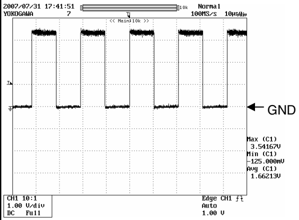
⑲ IC6514 - pin 6/8/10/12
V: 2 V/div. H: 500 nS/div.



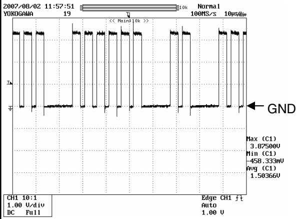
⑳ IC6516 - pin16
V: 1 V/div. H: 100 nS/div.



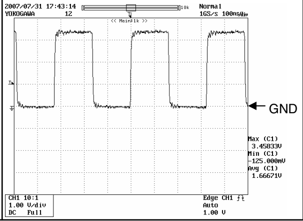
㉑ IC6516 - pin24
V: 1 V/div. H: 10 uS/div.



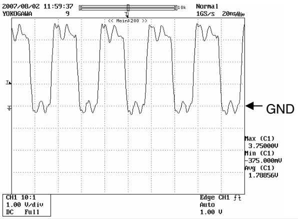
㉒ IC6516 - pin25
V: 1 V/div. H: 10 uS/div.



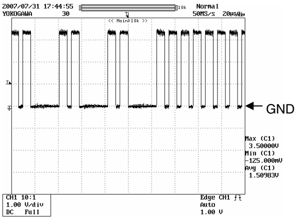
㉓ IC6516 - pin26
V: 1 V/div. H: 100 nS/div.



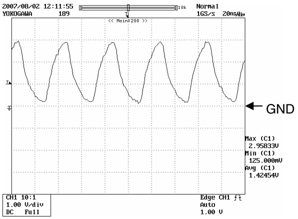
㉔ IC6516 - pin27
V: 1 V/div. H: 20 nS/div.



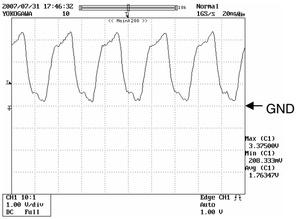
㉕ IC6516 - pin28
V: 1 V/div. H: 20 uS/div.



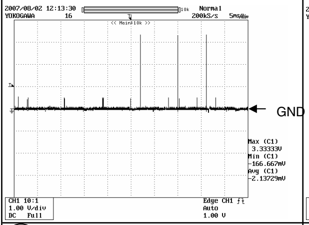
㉖ IC6516 - pin29
V: 1 V/div. H: 20 nS/div.



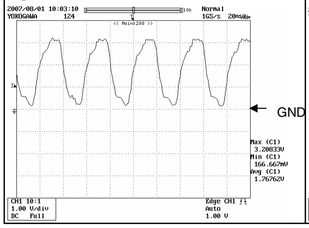
㉗ IC6516 - pin30
V: 1 V/div. H: 20 nS/div.



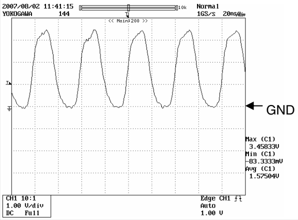
㉘ IC6516 - pin32
V: 1 V/div. H: 5 mS/div.



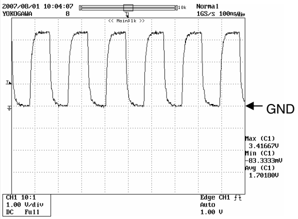
㉙ IC6517 - pin2
V: 1 V/div. H: 20 nS/div.



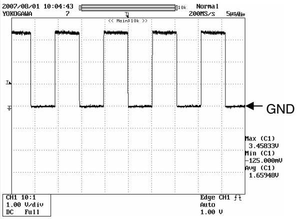
㉚ IC6517 - pin3
V: 1 V/div. H: 20 nS/div.



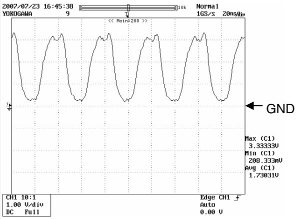
㉛ IC6517 - pin5
V: 1 V/div. H: 100 nS/div.



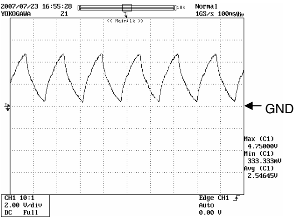
㉜ IC6517 - pin6
V: 1 V/div. H: 5 uS/div.



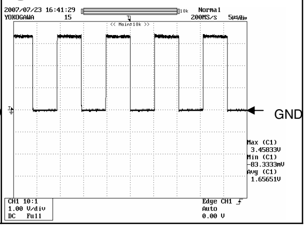
㉝ IC6505 => R6563
V: 1 V/div. H: 20 nS/div.



㉞ IC6515 => R6540
V: 2 V/div. H: 100 nS/div.



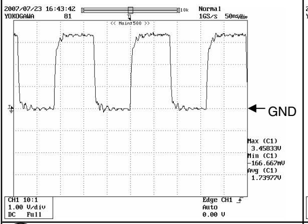
㉟ IC6517 => R6520
V: 1 V/div. H: 5 uS/div.



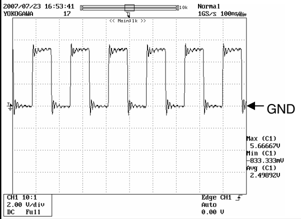
NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

AA HAMP ASSY

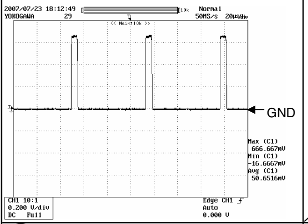
㊱ IC6517 => R6521
V: 1 V/div. H: 50 nS/div.



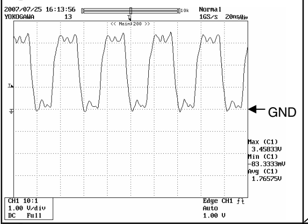
㊷ IC6514 => R6540
V: 2 V/div. H: 100 nS/div.



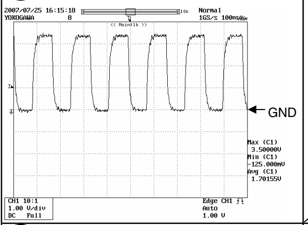
㊲ Q6502 => R6543
V: 0.2 V/div. H: 20 uS/div.



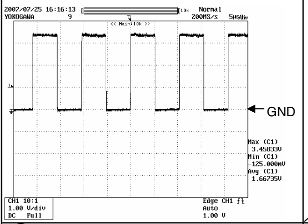
㊳ CN6501 - pin21
V: 1 V/div. H: 20 nS/div.



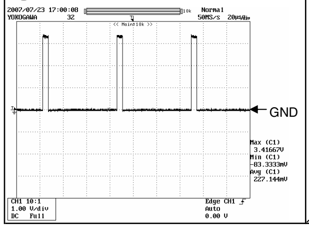
㊴ CN6501 - pin23
V: 1 V/div. H: 100 nS/div.



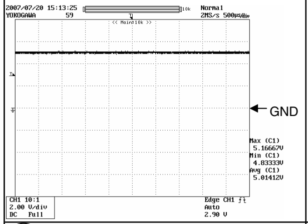
㊵ CN6501 - pin25
V: 1 V/div. H: 5 uS/div.



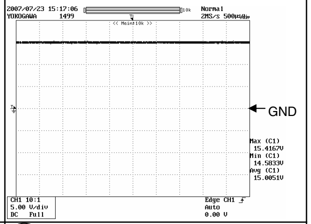
㊶ CN6501 => R6543
V: 1 V/div. H: 20 uS/div.



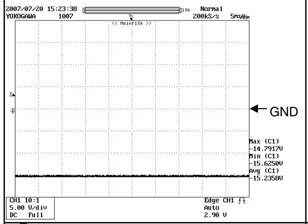
① V+5D
V: 2 V/div. H: 500 uS/div.



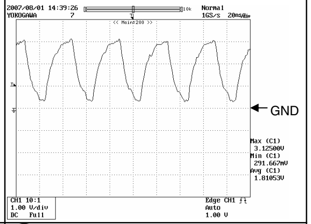
⑦ V+15A
V: 5 V/div. H: 500 uS/div.



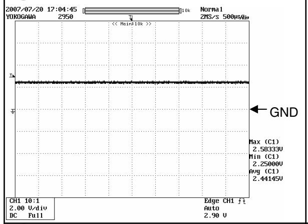
② V-15A
V: 5 V/div. H: 5 mS/div.



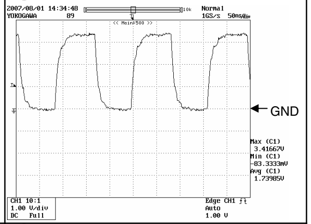
⑧ IC7404 - pin1
V: 5 V/div. H: 500 uS/div.



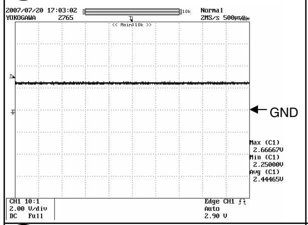
③ HP_R-
V: 2 V/div. H: 500 uS/div.



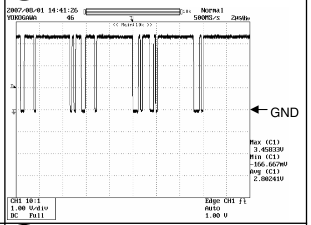
⑨ IC7404 - pin2
V: 1 V/div. H: 50 nS/div.



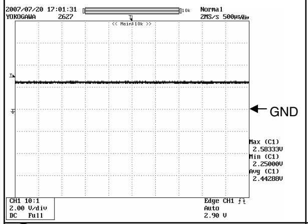
④ HP_R+
V: 2 V/div. H: 500 uS/div.



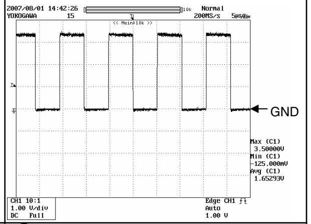
⑩ IC7404 - pin3
V: 1 V/div. H: 2 uS/div.



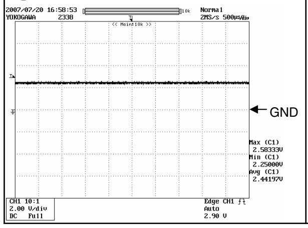
⑤ HP_L-
V: 2 V/div. H: 500 uS/div.



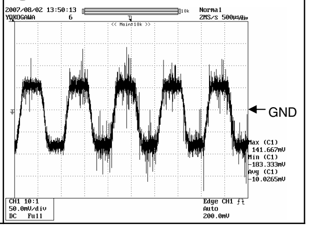
⑪ IC7404 - pin4
V: 1 V/div. H: 5 uS/div.



⑥ HP_L+
V: 2 V/div. H: 500 uS/div.

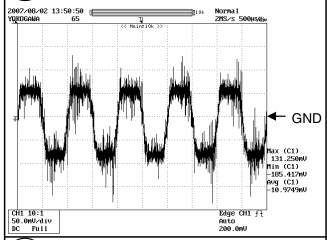


⑫ IC7404 - pin15
V: 50 mV/div. H: 500 uS/div.

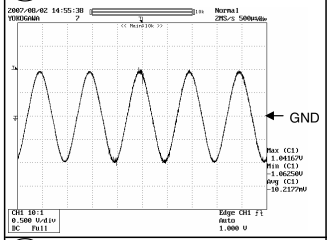


NOTE : The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.

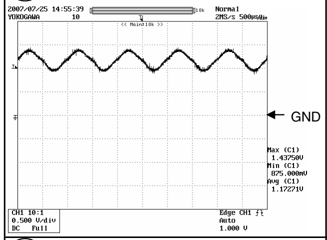
⑬ IC7404 - pin16
V: 50 mV/div. H: 500 uS/div.



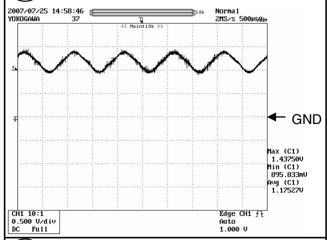
⑭ IC7406 - pin1
V: 0.5 V/div. H: 500 uS/div.



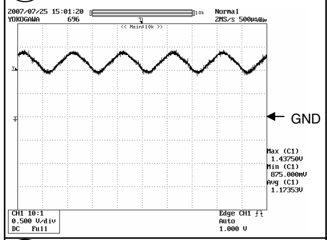
⑮ IC7406 - pin2
V: 0.5 V/div. H: 500 uS/div.



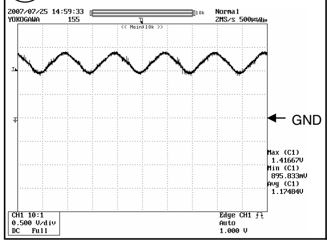
⑯ IC7406 - pin3
V: 0.5 V/div. H: 500 uS/div.



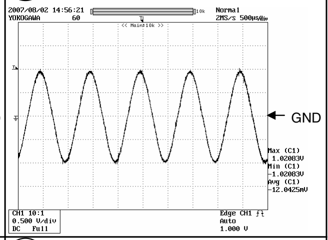
⑰ IC7406 - pin5
V: 0.5 V/div. H: 500 uS/div.



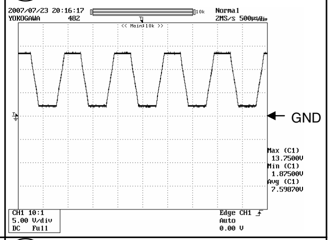
⑱ IC7406 - pin6
V: 0.5 V/div. H: 500 uS/div.



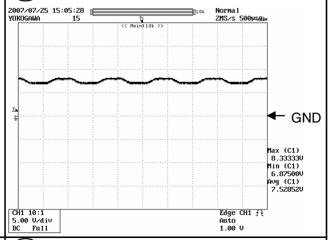
⑲ IC7406 - pin7
V: 0.5 V/div. H: 500 uS/div.



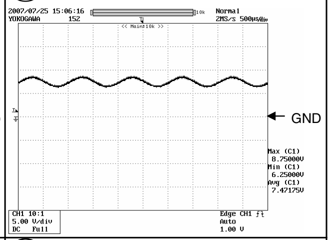
⑳ IC7407 - pin1
V: 5 V/div. H: 500 uS/div.



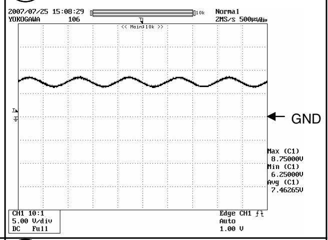
㉑ IC7407 - pin2
V: 5 V/div. H: 500 uS/div.



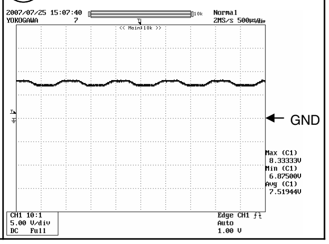
㉒ IC7407 - pin3
V: 5 V/div. H: 500 uS/div.



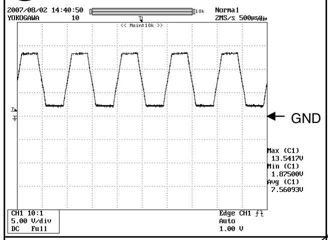
㉓ IC7407 - pin5
V: 5 V/div. H: 500 uS/div.



㉔ IC7407 - pin6
V: 5 V/div. H: 500 uS/div.



㉕ IC7407 - pin7
V: 5 V/div. H: 500 uS/div.



A

B

C

D

E

F

11. PCB CONNECTION DIAGRAM

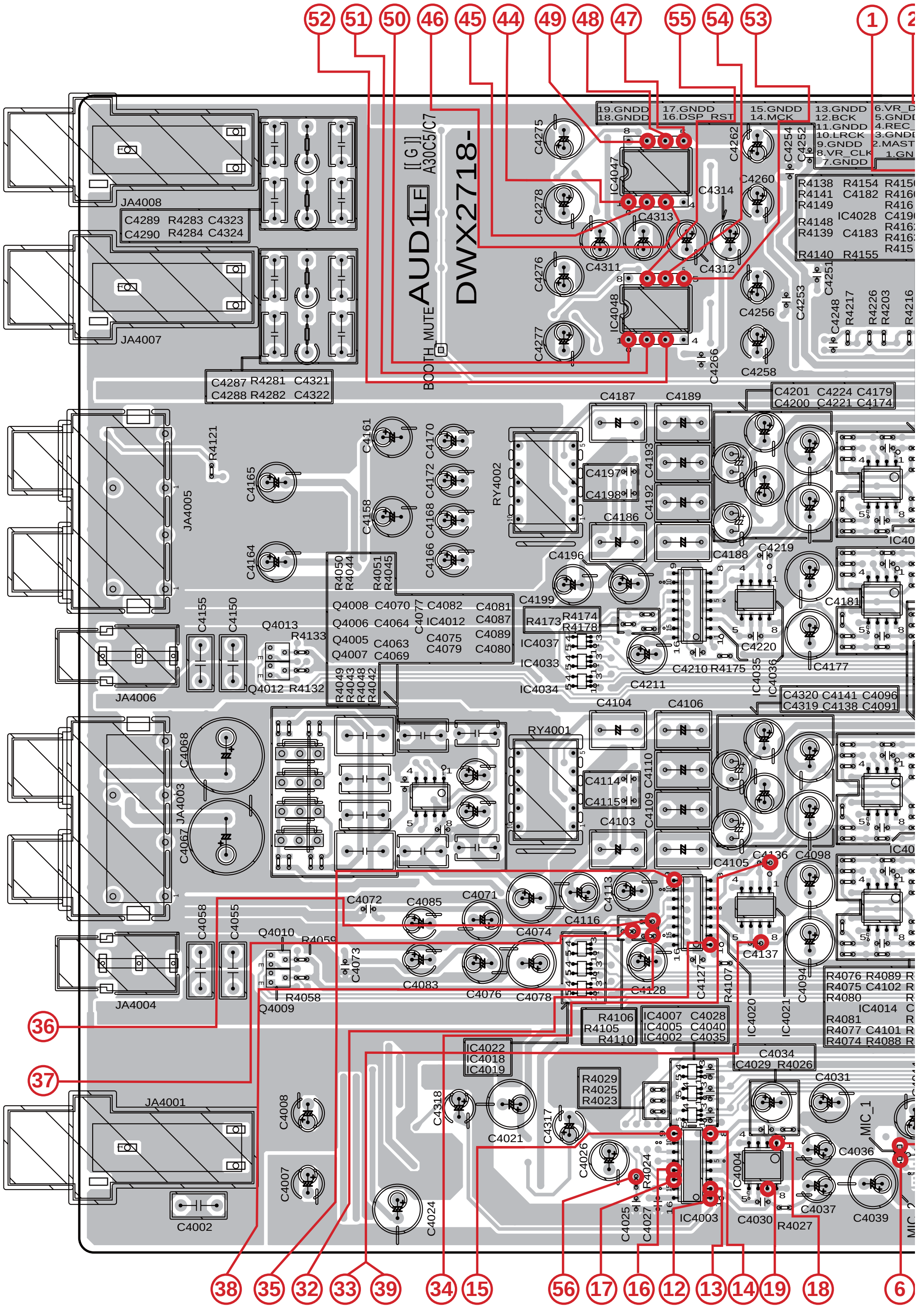
11.1 AUD1 and MJCK ASSYS

SIDE A

A AUD1 ASSY

IC Q

IC4047
IC4028
IC4044
IC4048
IC4043
IC4056
IC4042
IC4041
IC4038
IC4030
IC4039
IC4040
IC4032 Q4008
IC4012 Q4006 Q4013
IC4037 Q4005
IC4029 Q4007
IC4058
IC4033
IC4036 IC4035 Q4012
IC4034
IC4013
IC4023
IC4015
IC4024
IC4025
IC4017
Q4010
IC4057
IC4014 Q4009
IC4020 IC4021 IC4007 IC4055
IC4005 IC4054
IC4002 IC4053
IC4022 IC4052
IC4018 IC4051
IC4019 IC4050
IC4049
IC4006
IC4008
IC4004
IC4010
IC4009 IC4003



52
51
50
46
45
44
49
48
47
55
54
53
1
19.GNDD
18.GNDD
17.GNDD
16.DSP_RST
15.GNDD
14.MCK
13.GNDD
12.BCK
11.GNDD
10.LRCK
9.GNDD
8.VR_CLK
7.GNDD
6.VR_D
5.GNDD
4.REC_
3.GNDD
2.MAST
1.GN
[[G]]
A30C5/C7
AUD1
LF
DWX2718-
BOOTH_MUTE
JA4008
JA4007
JA4005
JA4006
JA4004
JA4003
JA4001
RY4002
RY4001
MIC_1
IC4047
IC4048
IC4028
IC4037
IC4033
IC4034
IC4035
IC4036
IC4012
IC4020
IC4021
IC4003
IC4004
IC4014
IC4022
IC4018
IC4019
IC4007
IC4005
IC4002
Q4008
Q4006
Q4005
Q4007
Q4012
Q4013
Q4010
Q4009
C4289 R4283 C4323
C4290 R4284 C4324
C4287 R4281 C4321
C4288 R4282 C4322
C4201 C4224 C4179
C4200 C4221 C4174
C4320 C4141 C4096
C4319 C4138 C4091
R4138 R4154 R415
R4141 C4182 R416
R4149 R416
R4148 IC4028 C419
R4139 C4183 R416
R4140 R4155 R415
R4076 R4089
R4075 C4102
R4080
IC4014
R4081
R4077 C4101
R4074 R4088
R4106
R4105
R4110
IC4007 C4028
IC4005 C4040
IC4002 C4035
R4029
R4025
R4023
C4034
C4029 R4026
36
37
38
35
32
33
39
34
15
56
17
16
12
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14
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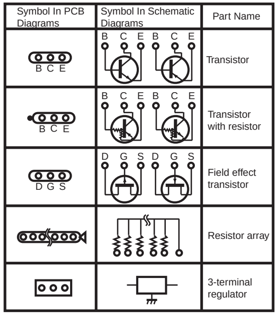
18
6

SIDE A

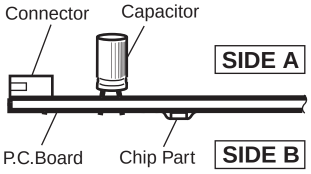
NOTE FOR PCB DIAGRAMS :

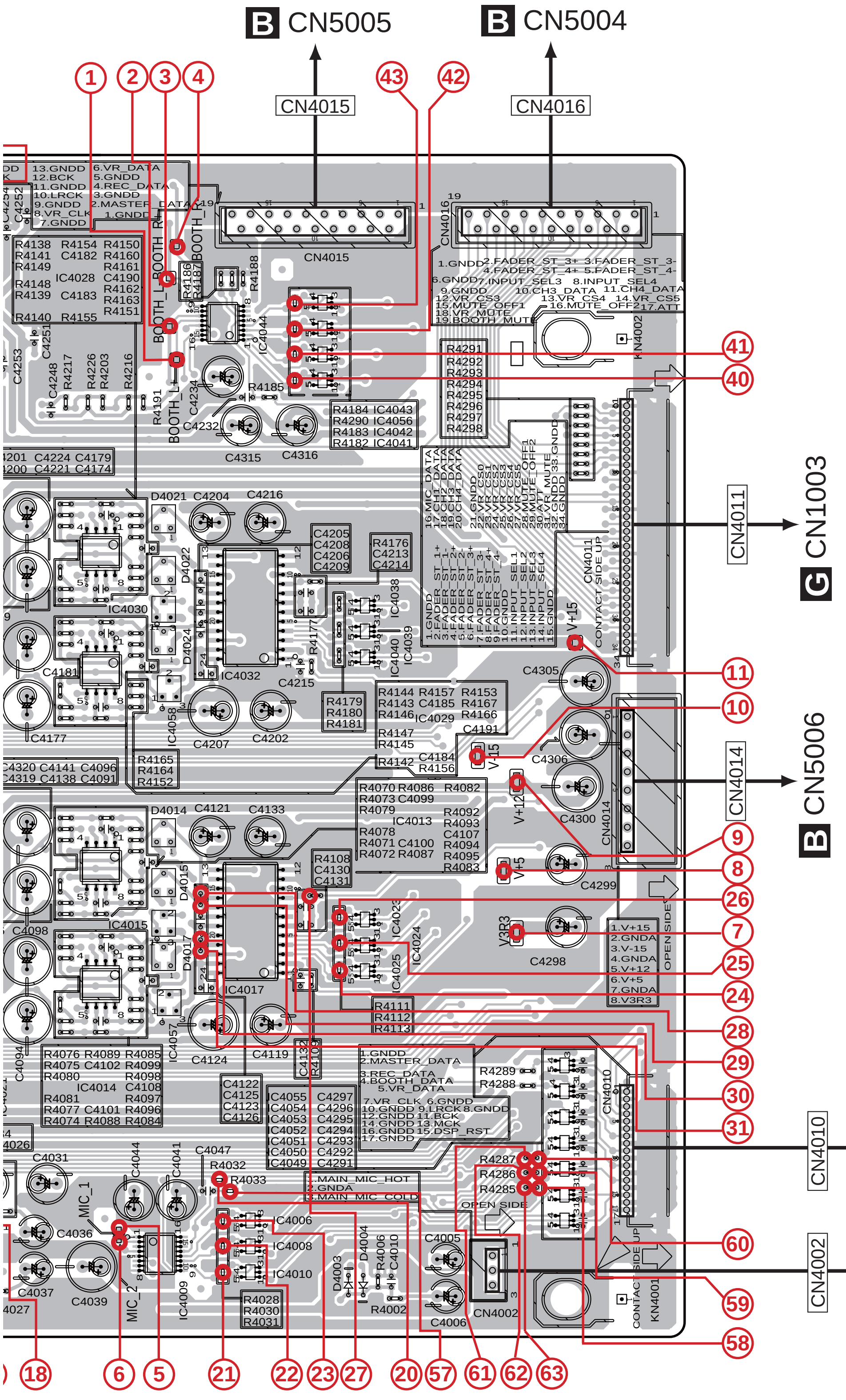
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.



Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

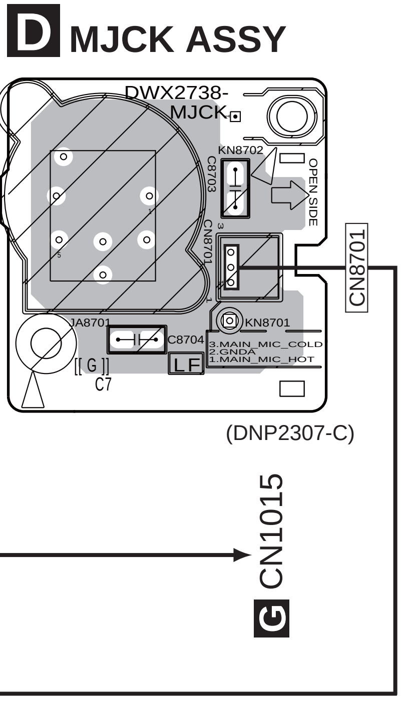
3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.


Connector
Capacitor
SIDE A
P.C.Board
Chip Part
SIDE B


B CN5005
B CN5004
CN4015
CN4016
① ② ③ ④ ㊸ ㊷ ㊶ ㊵
⑪ ⑩ ⑨ ⑧ ㉖ ⑦ ㉕ ㉔ ㉘ ㉙ ㉚ ㉛ ㊿
(60) (59) (58)
⑱ ⑥ ⑤ ㉑ ㉒ ㉓ ㉗ ⑳ (57) (61) (62) (63)
CN4011
G CN1003
CN4014
B CN5006
CN4010
CN4002
13.GNDD 6.VR_DATA
12.BCK 5.GNDD
11.GNDD 4.REC_DATA
10.LRCK 3.GNDD
9.GNDD 2.MASTER_DATA
8.VR_CLK 1.GNDD
7.GNDD
1.GNDD 2.FADER_ST_3+ 3.FADER_ST_3-
4.FADER_ST_4+ 5.FADER_ST_4-
6.GNDD 7.INPUT_SEL3 8.INPUT_SEL4
9.GNDD 10.CH3_DATA 11.CH4_DATA
12.VR_CS3 13.VR_CS4 14.VR_CS5
15.MUTE_OFF1 16.MUTE_OFF2 17.ATT
18.VR_MUTE
19.BOOTH_MUTE
1.V+15
2.GNDA
3.V-15
4.GNDA
5.V+12
6.V+5
7.GNDA
8.V3R3
OPEN SIDE
CONTACT SIDE UP
1.GNDD
2.MASTER_DATA
3.REC_DATA
4.BOOTH_DATA
5.VR_DATA
6.GNDD 7.VR_CLK
8.GNDD 9.LRCK
10.GNDD 11.BCK
12.GNDD 13.MCK
14.GNDD 15.DSP_RST
16.GNDD 17.GNDD
1.MAIN_MIC_HOT
2.GNDA
3.MAIN_MIC_COLD
V+15 V-15 V+12 V+5 V3R3
MIC_1 MIC_2
BOOTH_L BOOTH_R

(DNP2303-C)

D MJCK ASSY


DWX2738-
MJCK
KN8702
C8703
OPEN SIDE
CN8701
JA8701
C8704
KN8701
3.MAIN_MIC_COLD
2.GNDA
1.MAIN_MIC_HOT
G
C7
LF
CN8701
G CN1015

(DNP2307-C)

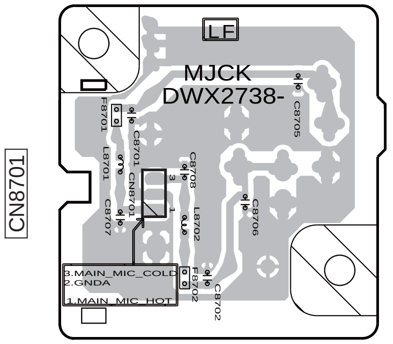
NOTE: The encircled numbers denote measuring point.

A D

SIDE B

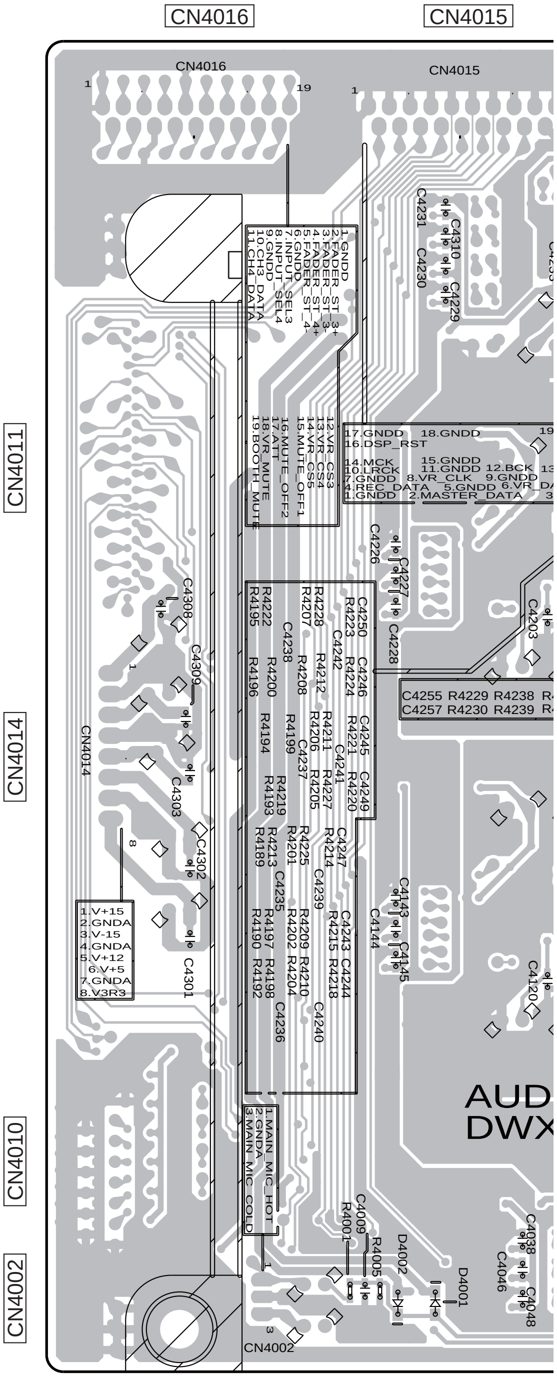
A AUD1 ASSY

D MJCK ASSY


CN8701
LF
MJCK
DWX2738-
F8701
C8701
L8701
CN8701
C8707
C8708
L8702
C8706
C8705
C8702
F8702
3.MAIN_MIC_COLD
2.GNDA
1.MAIN_MIC_HOT

(DNP2307-C)

IC	Q
	Q4017 Q4021
IC4046	
IC4045	
	Q4018 Q4022
	Q4014
IC4027	
IC4031	
IC4026	
	Q4016 Q4020 Q4015 Q4019
	Q4011
IC4016	
IC4011	
	Q4004
IC4001	Q4003
	Q4001 Q4002


CN4016
CN4015
CN4011
CN4014
CN4010
CN4002
1.GNDD
2.FADER_ST_3+
3.FADER_ST_3-
4.FADER_ST_4+
5.FADER_ST_4-
6.GNDD
7.INPUT_SEL3
8.INPUT_SEL4
9.GNDD
10.CH3_DATA
11.CH4_DATA
12.VR_CS3
13.VR_CS4
14.VR_CS5
15.MUTE_OFF1
16.MUTE_OFF2
17.ATT
18.VR_MUTE
19.BOOTH_MUTE
17.GNDD
18.GNDD
16.DSP_RST
14.MCK
15.GNDD
10.LRCK
11.GNDD
12.BCK
7.GNDD
8.VR_CLK
9.GNDD
4.REC_DATA
5.GNDD
6.VR_DA
1.GNDD
2.MASTER_DATA
C4255 R4229 R4238
C4257 R4230 R4239
1.V+15
2.GNDA
3.V-15
4.GNDA
5.V+12
6.V+5
7.GNDA
8.V3R3
1.MAIN_MIC_HOT
2.GNDA
3.MAIN_MIC_COLD
AUD
DWX

SIDE B

A

CN4015

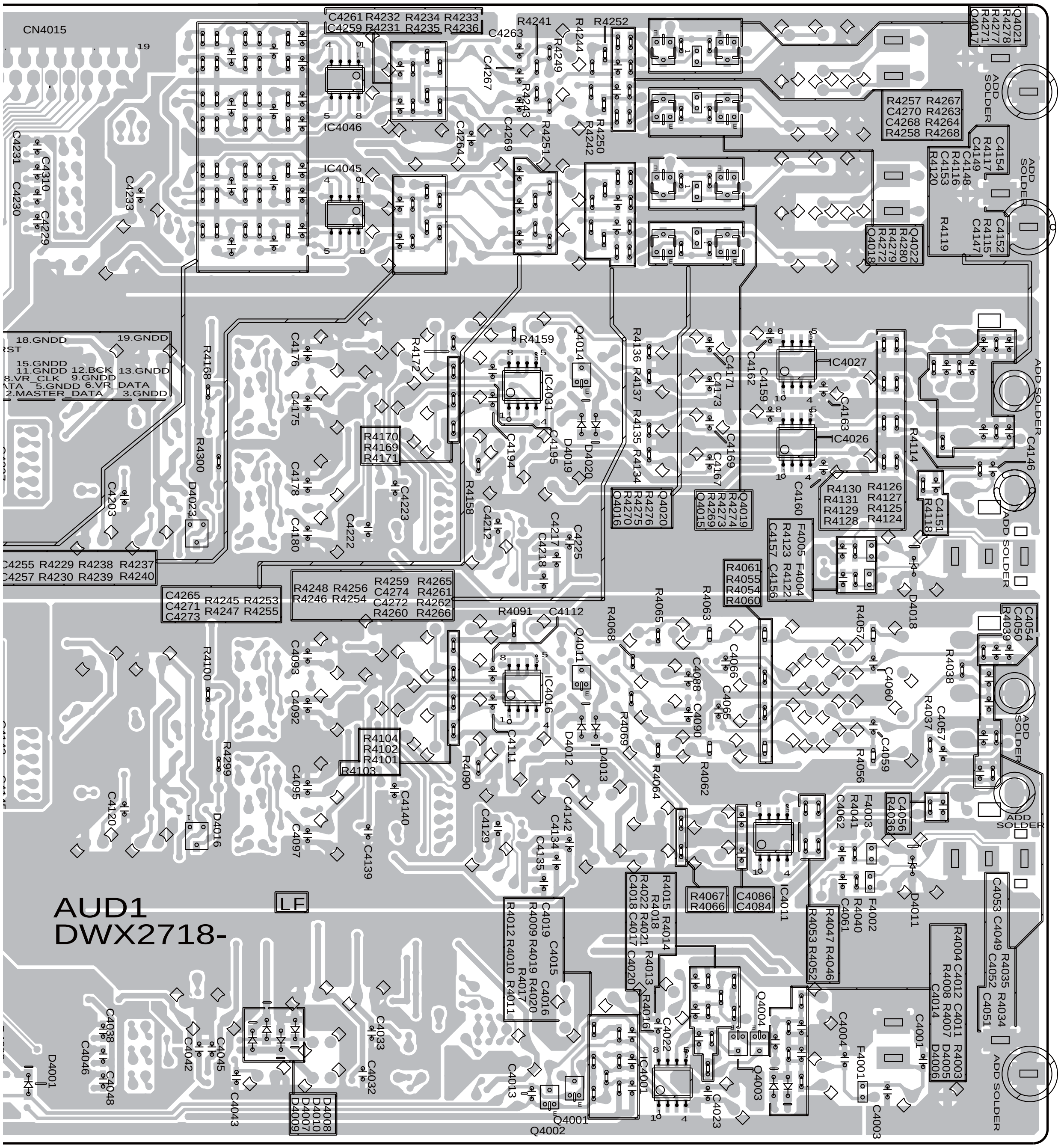
B

C

D

E

F


CN4015
19
C4261 R4232 R4234 R4233
C4259 R4231 R4235 R4236
C4263
R4241
R4252
R4244
R4249
C4267
R4243
IC4046
IC4045
C4264
C4269
R4251
R4250
R4242
C4231
C4310
C4230
C4229
C4233
Q4021
R4278
R4277
R4271
Q4017
ADD SOLDER
R4257 R4267
C4270 R4263
C4268 R4264
R4258 R4268
C4154
R4117
C4149
C4148
R4116
C4153
R4120
R4119
C4152
R4115
C4147
Q4022
R4280
R4279
R4272
Q4018
18.GNDD
19.GNDD
RST
15.GNDD
11.GNDD 12.BCK 13.GNDD
8.VR_CLK 9.GNDD
ATA 5.GNDD 6.VR_DATA
2.MASTER_DATA 3.GNDD
R4168
C4176
R4172
R4159
Q4014
IC4031
R4136 R4137 R4135 R4134
C4171
C4162
C4173
C4159
IC4027
C4163
IC4026
C4169
C4167
R4114
C4146
C4175
R4170
R4169
R4171
C4194
C4195
D4019
D4020
R4300
D4023
C4203
C4178
C4223
C4180
C4222
R4158
C4212
C4217
C4218
C4225
Q4020
R4276
R4275
R4270
Q4016
Q4019
R4274
R4273
R4269
Q4015
C4160
R4130 R4126
R4131 R4127
R4129 R4125
R4128 R4124
C4151
R4118
F4005
R4123 R4122
C4157 C4156
F4004
R4061
R4055
R4054
R4060
C4255 R4229 R4238 R4237
C4257 R4230 R4239 R4240
C4265
C4271 R4245 R4253
C4273 R4247 R4255
R4248 R4256
R4246 R4254
R4259 R4265
C4274 R4261
C4272 R4262
R4260 R4266
R4091
C4112
R4068
R4065
R4063
R4057
D4018
C4054
C4050
R4039
R4100
C4093
Q4011
IC4016
C4088
C4066
C4065
C4090
C4060
R4038
R4037
C4057
C4092
R4104
R4102
R4101
R4103
C4111
D4012
D4013
R4069
R4064
R4062
R4056
C4059
R4299
C4095
R4090
C4140
C4120
D4016
C4097
C4139
C4129
C4142
C4134
C4135
F4003
R4041
C4062
C4056
R4036
ADD SOLDER
R4067
R4066
C4086
C4084
IC4011
R4015 R4014
R4018
R4022 R4021
C4018 C4017
C4019 C4015
R4009 R4019 R4020
R4012 R4010
R4017
R4011
C4016
R4013
C4020
R4016
R4047 R4046
R4053 R4052
R4040
C4061
F4002
D4011
C4053 C4049
R4004 C4012 C4011
R4008 R4007
C4014
R4035 R4034
C4052
C4051
R4003
D4005
D4006
C4001
C4004
F4001
C4003
AUD1
DWX2718-
LF
C4038
C4046
C4048
D4001
C4042
C4045
C4043
D4008
D4010
D4007
D4009
C4033
C4032
C4013
Q4002
Q4001
IC4001
C4022
Q4004
Q4003
C4023
ADD SOLDER

(DNP2303-C)

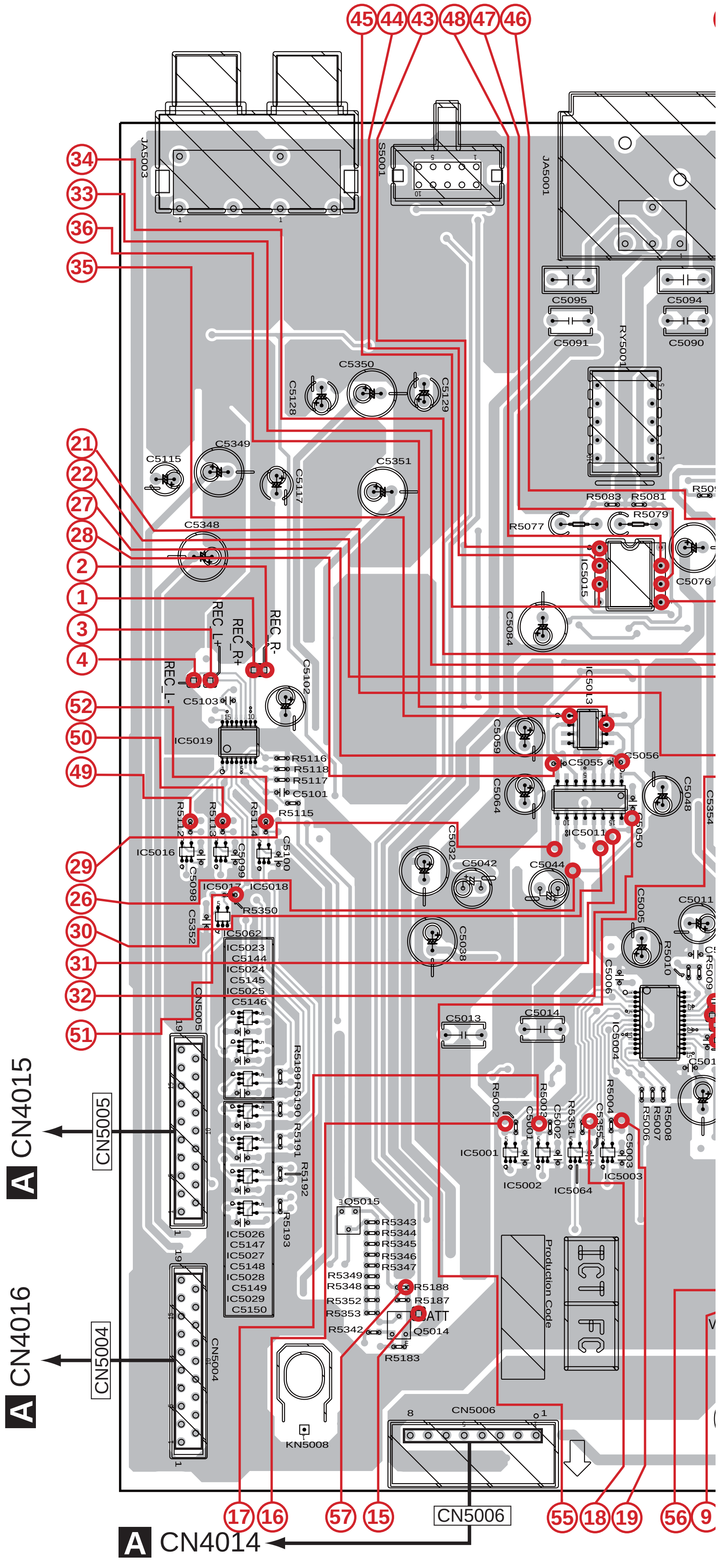
A

11.2 AUD2 ASSY

SIDE A

B AUD2 ASSY

IC	Q
	Q5022 Q5020 Q5021 Q5019
	Q5023 Q5024
	Q5016 Q5017
IC5048	
IC5039	
IC5043 IC5040	
IC5015 IC5014 IC5054	
IC5055 IC5058	Q5003 Q5005
IC5041	
IC5012	
IC5013 IC5042	
IC5056	
IC5019	
IC5057 IC5010 IC5034	
IC5063 IC5011 IC5007 IC5016	
IC5035 IC5036	
IC5017 IC5018	
IC5006	
IC5050 IC5062 IC5049	
IC5065 IC5023 IC5005 IC5024 IC5038 IC5025	
IC5066 IC5051	
IC5004	
IC5053	
IC5046 IC5044	
IC5045	
IC5001	
IC5003 IC5059	
IC5061 IC5002 IC5064 IC5060	Q5015
IC5026	
IC5027	
IC5028	
IC5029 IC5030	Q5014
IC5031	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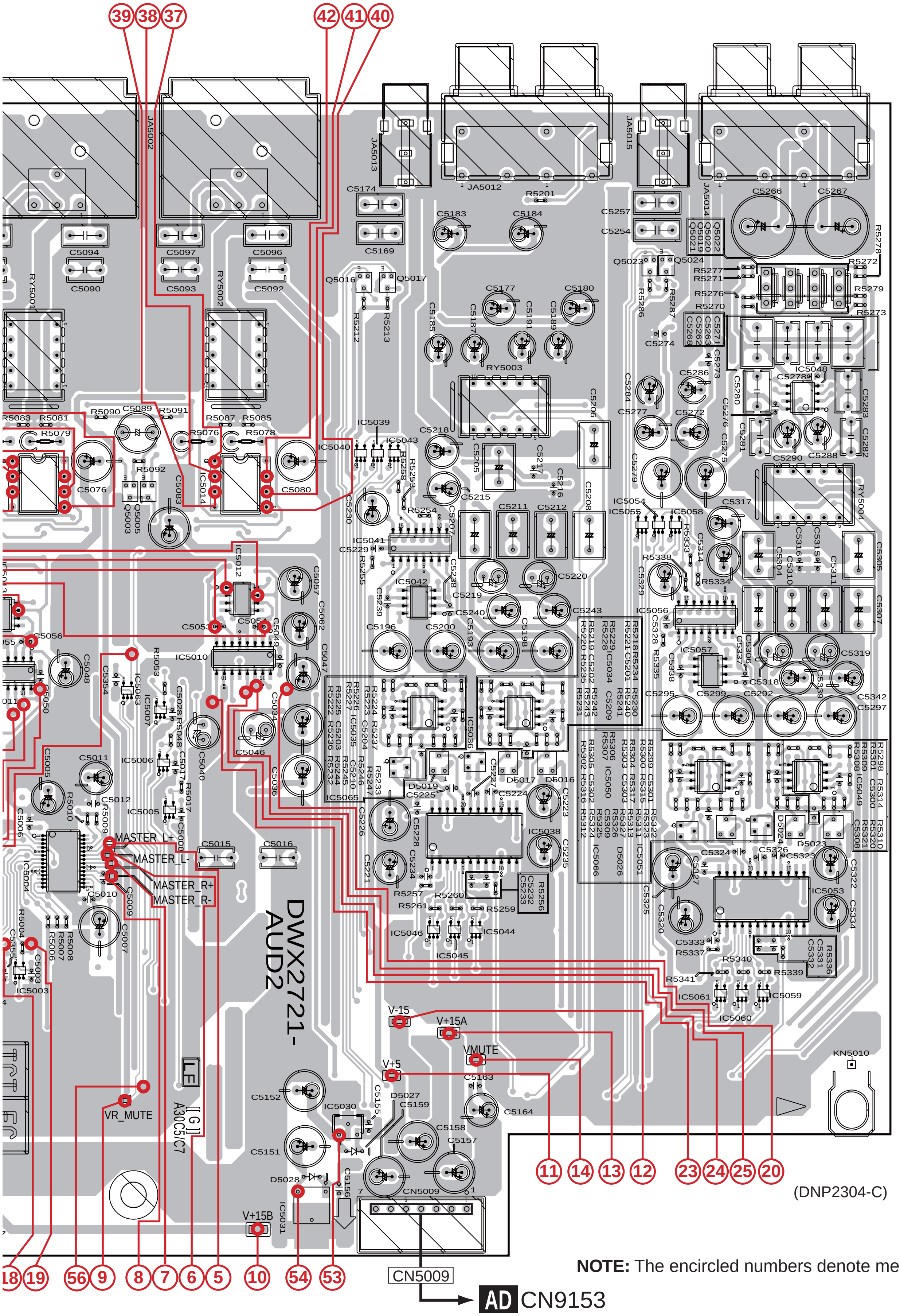
JA5003
S5001
JA5001
34 33 36 35
C5095 C5094 C5091 C5090
RY5001
C5350 C5128 C5129
21 22 27 28 2 1 3 4
C5115 C5349 C5117 C5351
C5348
R5083 R5081 R5077 R5079
IC5015 C5076 C5084
REC_L+ REC_R+ REC_R- REC_L-
C5102 C5103
IC5013
52 50 49
IC5019
R5116 R5118 R5117 C5101 R5115
C5059 C5055 C5056 C5064 C5048 C5354
IC5011 C5050
R5112 R5113 R5114
IC5016 C5099 C5100 C5098
29 26 30 31 32 51
C5032 C5042 C5044
IC5017 IC5018 R5350
C5352
C5038 C5005 C5011 C5006 R5010 R5009
IC5062 IC5023 C5144 IC5024 C5145 IC5025 C5146
CN5005
C5013 C5014
IC5004
R5189 R5190 R5191 R5192 R5193
R5002 R5003 C5001 C5002 R5351 C5353 R5004 C5003 R5008 R5007 R5006
IC5001 IC5002 IC5064 IC5003
Q5015
R5343 R5344 R5345 R5346 R5347
IC5026 C5147 IC5027 C5148 IC5028 C5149 IC5029 C5150
R5349 R5348 R5352 R5353 R5342
R5188 R5187 ATT Q5014 R5183
Production Code
CN5004
KN5008
CN5006
A CN4015
CN5005
A CN4016
CN5004
17 16 57 15
CN5006
55 18 19 56 9
A CN4014

B

SIDE A



39
38
37
42
41
40
JA5002
JA5013
JA5012
JA5015
JA5014
RY5001
RY5002
RY5003
RY5004
IC5014
IC5012
IC5010
IC5039
IC5040
IC5041
IC5042
IC5043
IC5048
IC5054
IC5055
IC5056
IC5057
IC5058
C5266
C5267
C5183
C5184
C5177
C5180
C5174
C5169
C5257
C5254
Q5016
Q5017
Q5023
Q5024
MASTER_L+
MASTER_L-
MASTER_R+
MASTER_R-
VR_MUTE
LF
[G]
A30C5C7
DWX2721-
AUD2
V-15
V+15A
VMUTE
V+5
V+15B
KN5010
C5152
C5151
C5163
C5164
C5158
C5157
C5159
C5155
C5156
IC5030
IC5031
D5027
D5028
CN5009
IC5059
IC5060
IC5061
IC5053
IC5044
IC5045
IC5046
IC5038
IC5065
11
14
13
12
23
24
25
20
18
19
56
9
8
7
6
5
10
54
53

(DNP2304-C)

NOTE: The encircled numbers denote measuring point.

CN5009

AD CN9153

A

SIDE B

B AUD2 ASSY

IC Q

Q5010
Q5013 Q5012
Q5011

B

IC5032 IC5033 Q5006 Q5009 Q5008

Q5007

IC5047

IC5021 Q5018

IC5020

IC5037

C

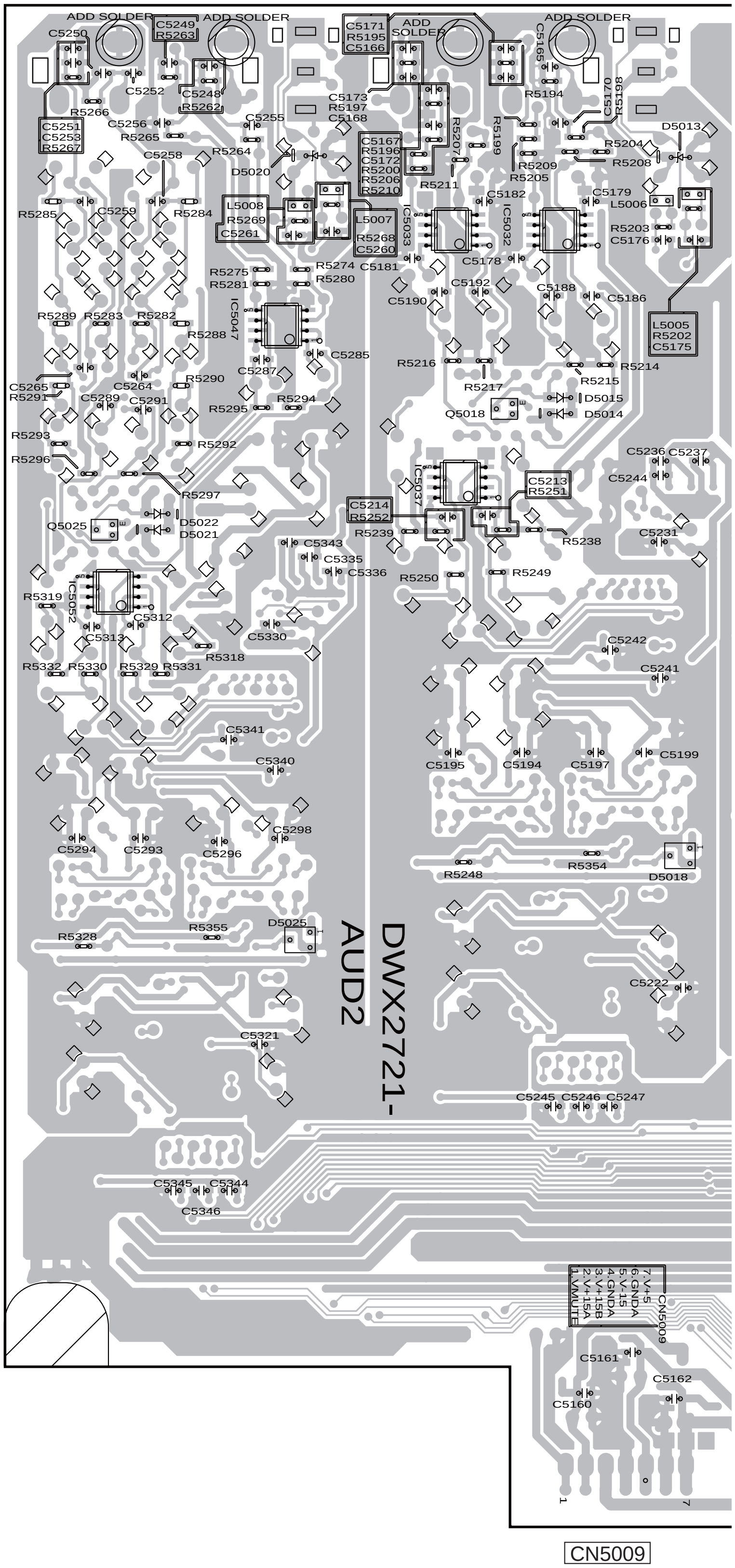
Q5004
Q5025

Q5002

IC5052

D

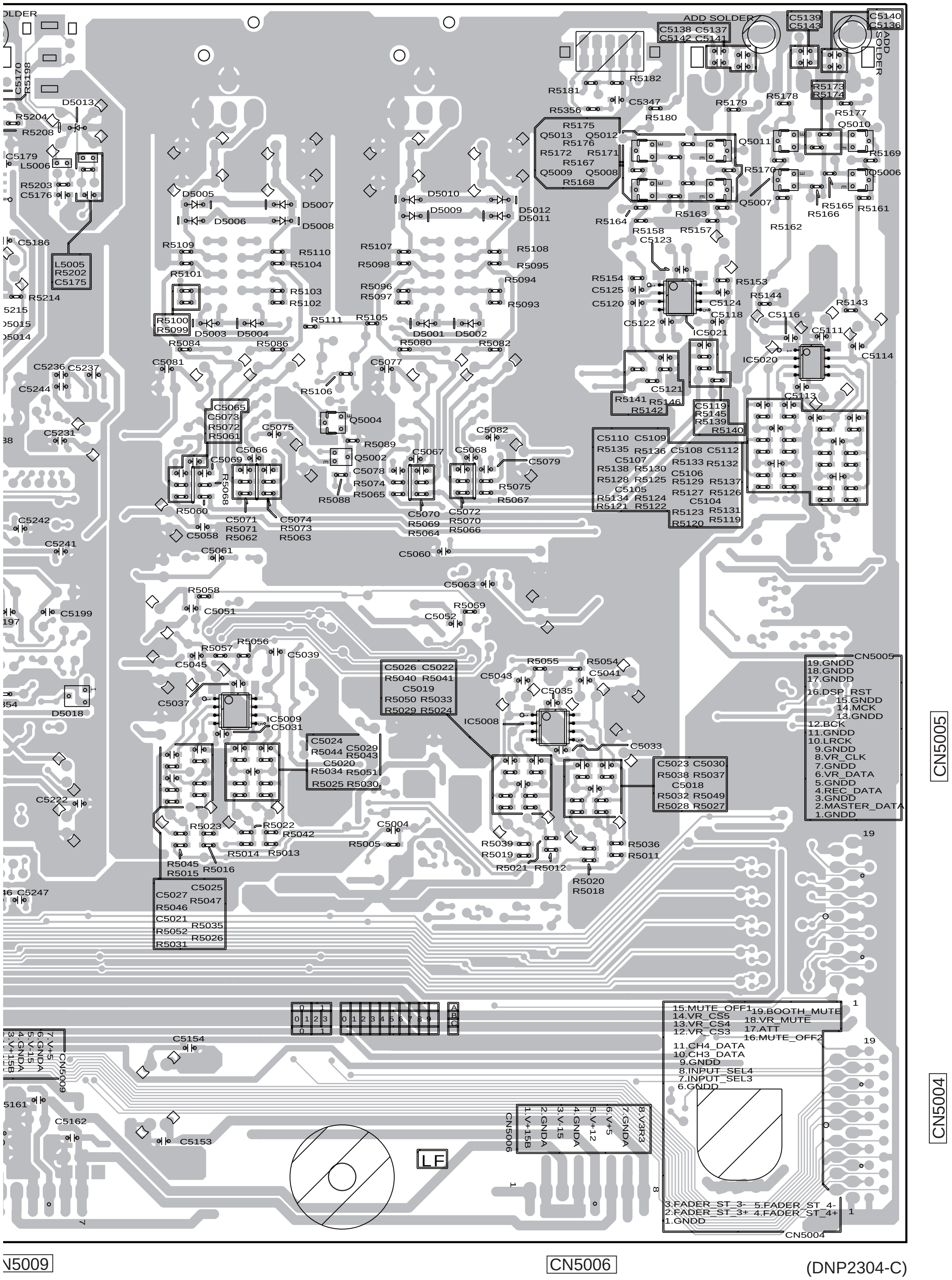
IC5008 IC5009


ADD SOLDER
C5249
R5263
ADD SOLDER
C5171
R5195
C5166
ADD SOLDER
ADD SOLDER
C5165
C5250
C5252
C5248
R5262
C5173
R5197
C5168
R5194
C5170
R5198
R5266
C5251
C5253
R5267
C5256
R5265
C5255
C5167
R5196
C5172
R5200
R5206
R5210
R5207
R5199
D5013
R5204
R5208
C5258
R5264
D5020
R5209
R5205
R5211
C5182
C5179
L5006
R5285
C5259
R5284
L5008
R5269
C5261
L5007
R5268
C5260
IC5033
IC5032
R5203
C5176
R5275
R5281
R5274
R5280
C5181
C5178
C5192
C5190
C5188
C5186
IC5047
R5289
R5283
R5282
R5288
L5005
R5202
C5175
C5287
C5285
R5216
R5214
R5215
C5265
R5291
C5264
R5290
C5289
C5291
R5295
R5294
R5217
D5015
Q5018
D5014
R5293
R5292
R5296
C5236
C5237
C5244
IC5037
C5213
R5251
R5297
C5214
R5252
Q5025
D5022
D5021
R5239
R5238
C5231
C5343
C5335
C5336
R5250
R5249
R5319
IC5052
C5312
C5313
C5330
C5242
R5318
R5332
R5330
R5329
R5331
C5241
C5341
C5340
C5195
C5194
C5197
C5199
C5298
C5294
C5293
C5296
R5248
R5354
D5018
D5025
R5355
R5328
DWX2721-
AUD2
C5222
C5321
C5245
C5246
C5247
C5345
C5344
C5346
7.V+5
6.GNDA
5.V-15
4.GNDA
3.V+15B
2.V+15A
1.MUTE
CN5009
C5161
C5162
C5160
1
7
CN5009

E

F

SIDE B


ADD SOLDER
IC5021
IC5020
IC5009
IC5008
Q5002
Q5004
Q5005
Q5006
Q5007
Q5008
Q5009
Q5010
Q5011
Q5012
Q5013
CN5005
19.GNDD
18.GNDD
17.GNDD
16.DSP_RST
15.GNDD
14.MCK
13.GNDD
12.BCK
11.GNDD
10.LRCK
9.GNDD
8.VR_CLK
7.GNDD
6.VR_DATA
5.GNDD
4.REC_DATA
3.GNDD
2.MASTER_DATA
1.GNDD
CN5004
15.MUTE_OFF1
14.VR_CS5
13.VR_CS4
12.VR_CS3
19.BOOTH_MUTE
18.VR_MUTE
17.ATT
16.MUTE_OFF2
11.CH4_DATA
10.CH3_DATA
9.GNDD
8.INPUT_SEL4
7.INPUT_SEL3
6.GNDD
3.FADER_ST_3-
2.FADER_ST_3+
1.GNDD
5.FADER_ST_4-
4.FADER_ST_4+
CN5006
8.V3R3
7.GNDA
6.V+5
5.V+12
4.GNDA
3.V-15
2.GNDA
1.V+15B
CN5009
7.V+5
6.GNDA
5.V-15
4.GNDA
3.V+15B
LF
CN5009
CN5006

(DNP2304-C)

11.3 VIO1 and VIO2 ASSYS

SIDE A

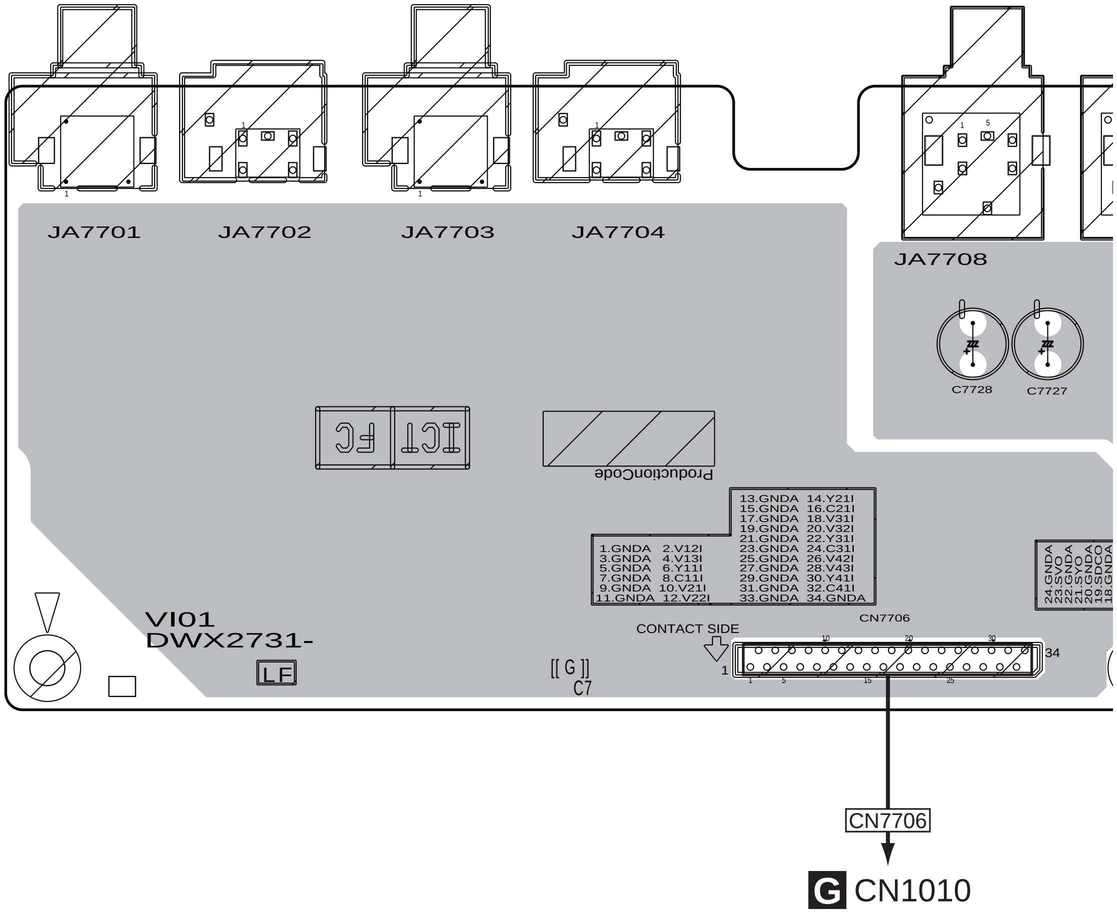
A

C VIO1 ASSY

B

C

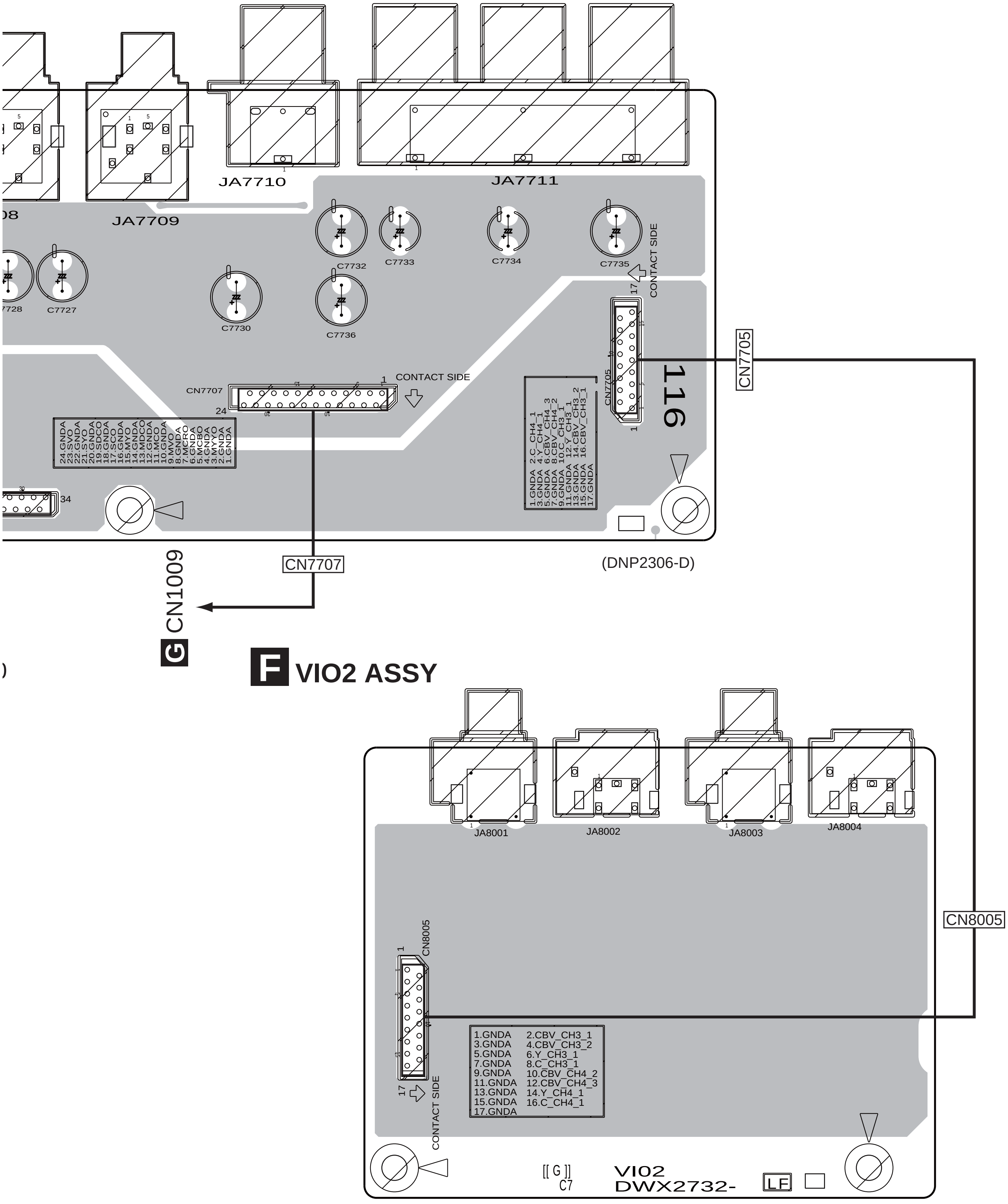
D


JA7701
JA7702
JA7703
JA7704
JA7708
C7728
C7727
FC
ICT
ProductionCode
1.GNDA 2.V12I
3.GNDA 4.V13I
5.GNDA 6.Y11I
7.GNDA 8.C11I
9.GNDA 10.V21I
11.GNDA 12.V22I
13.GNDA 14.Y21I
15.GNDA 16.C21I
17.GNDA 18.V31I
19.GNDA 20.V32I
21.GNDA 22.Y31I
23.GNDA 24.C31I
25.GNDA 26.V42I
27.GNDA 28.V43I
29.GNDA 30.Y41I
31.GNDA 32.C41I
33.GNDA 34.GNDA
24.GNDA
23.SVO
22.GNDA
21.SYO
20.GNDA
19.SDCO
18.GNDA
CN7706
CONTACT SIDE
1
34
VI01
DWX2731-
LF
[[G]]
C7
CN7706
G CN1010

E

F

SIDE A



A
B
C
D
E
F
JA7710
JA7711
08
JA7709
C7732
C7733
C7734
C7735
CONTACT SIDE
17
7728
C7727
C7730
C7736
CN7707
24
1
CONTACT SIDE
24.GNDA
23.SVO
22.GNDA
21.SYO
20.GNDA
19.SDCO
18.GNDA
17.SCO
16.GNDA
15.MYO
14.GNDA
13.MDCO
12.GNDA
11.MCO
10.GNDA
9.MVO
8.GNDA
7.MCRO
6.GNDA
5.MCBO
4.GNDA
3.MYYO
2.GNDA
1.GNDA
34
1.GNDA 2.C_CH4_1
3.GNDA 4.Y_CH4_1
5.GNDA 6.CBV_CH4_3
7.GNDA 8.CBV_CH4_2
9.GNDA 10.C_CH3_1
11.GNDA 12.Y_CH3_1
13.GNDA 14.CBV_CH3_2
15.GNDA 16.CBV_CH3_1
17.GNDA
CN7705
116
1
CN7705
CN7707
(DNP2306-D)
CN1009
G
)
JA8001
JA8002
JA8003
JA8004
CN8005
CN8005
1
17
CONTACT SIDE
1.GNDA 2.CBV_CH3_1
3.GNDA 4.CBV_CH3_2
5.GNDA 6.Y_CH3_1
7.GNDA 8.C_CH3_1
9.GNDA 10.CBV_CH4_2
11.GNDA 12.CBV_CH4_3
13.GNDA 14.Y_CH4_1
15.GNDA 16.C_CH4_1
17.GNDA
[[G]]
C7
VIO2
DWX2732-
LF

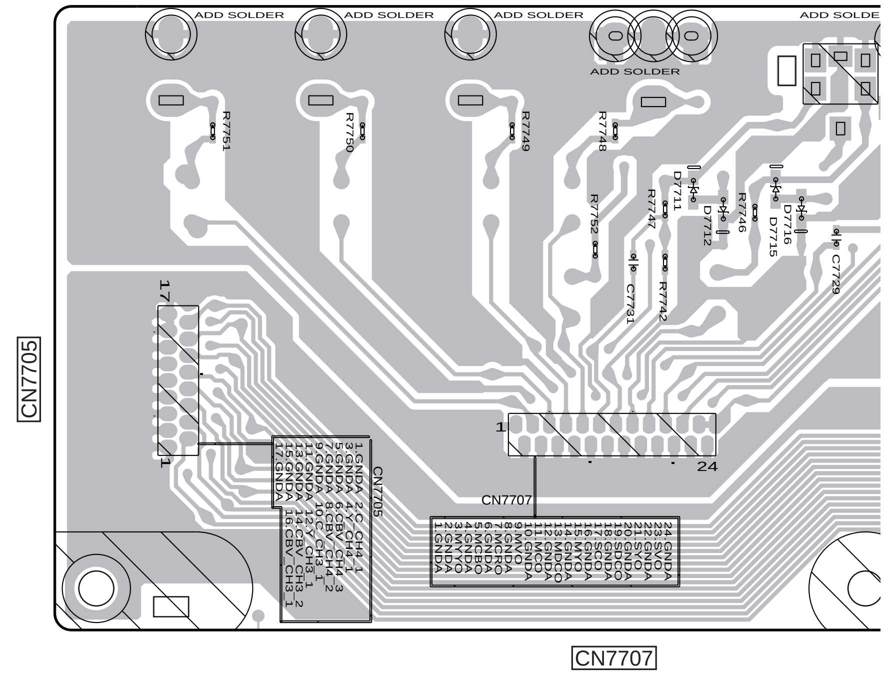
F VIO2 ASSY

(DNP2306-D)

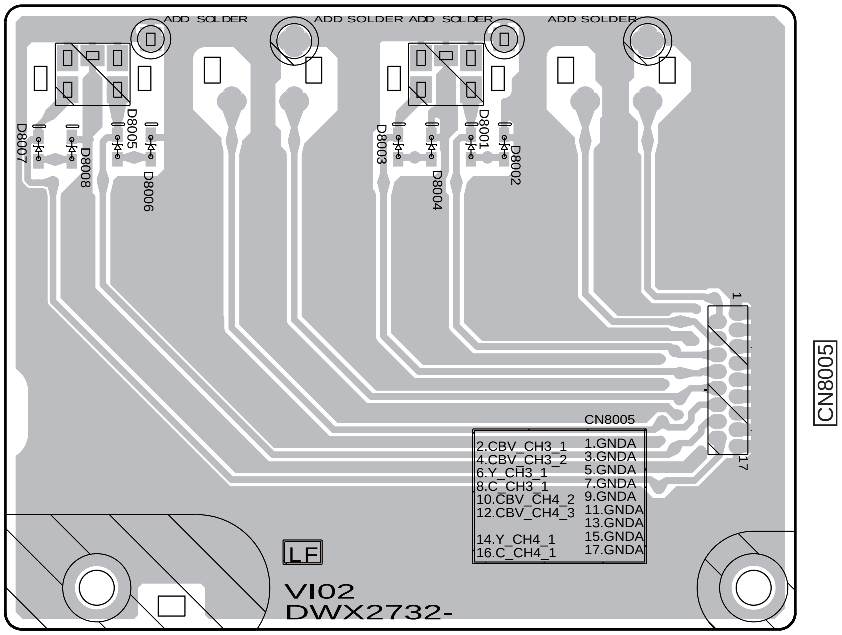
C F

SIDE B

C VIO1 ASSY


ADD SOLDER
ADD SOLDER
ADD SOLDER
ADD SOLDER
ADD SOLDE
R7751
R7750
R7749
R7748
R7752
R7747
D7711
D7712
R7746
D7716
D7715
C7731
R7742
C7729
17
1
CN7705
1.GNDA 2.C_CH4_1
3.GNDA 4.Y_CH4_1
5.GNDA 6.CBV_CH4_3
7.GNDA 8.CBV_CH4_2
9.GNDA 10.C_CH3_1
11.GNDA 12.Y_CH3_1
13.GNDA 14.CBV_CH3_2
15.GNDA 16.CBV_CH3_1
17.GNDA
1
24
CN7707
1.GNDA
2.GNDA
3.MYYO
4.GNDA
5.MCBO
6.GNDA
7.MCRO
8.GNDA
9.MVO
10.GNDA
11.MCO
12.GNDA
13.MDCO
14.GNDA
15.MYO
16.GNDA
17.SCO
18.GNDA
19.SDCO
20.GNDA
21.SYO
22.GNDA
23.SVO
24.GNDA
CN7707

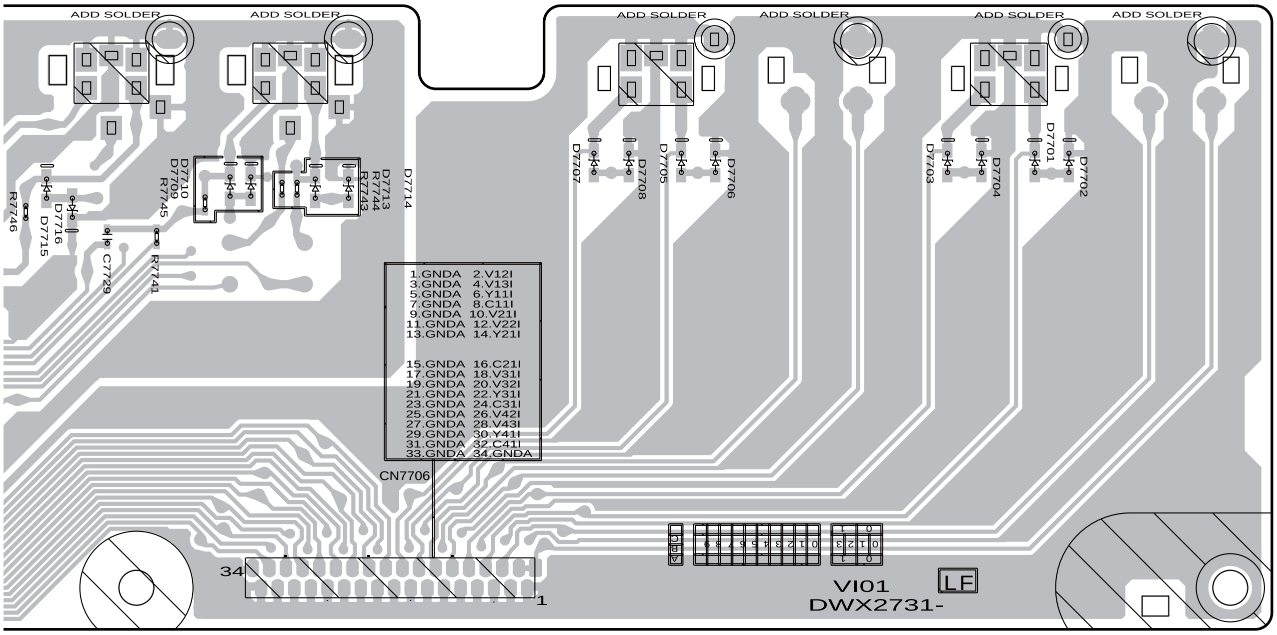
F VIO2 ASSY


ADD SOLDER
ADD SOLDER
ADD SOLDER
ADD SOLDER
D8007
D8008
D8005
D8006
D8003
D8004
D8001
D8002
1
17
CN8005
CN8005
2.CBV_CH3_1
4.CBV_CH3_2
6.Y_CH3_1
8.C_CH3_1
10.CBV_CH4_2
12.CBV_CH4_3
14.Y_CH4_1
16.C_CH4_1
1.GNDA
3.GNDA
5.GNDA
7.GNDA
9.GNDA
11.GNDA
13.GNDA
15.GNDA
17.GNDA
LF
VIO2
DWX2732-

(DNP2306-D)

C F

SIDE B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ADD SOLDER
ADD SOLDER
ADD SOLDER
ADD SOLDER
ADD SOLDER
R7746
D7716
D7715
C7729
R7741
D7710
D7709
R7745
D7713
R7744
R7743
D7714
D7707
D7708
D7705
D7706
D7703
D7704
D7701
D7702
1.GNDA 2.V12I
3.GNDA 4.V13I
5.GNDA 6.Y11I
7.GNDA 8.C11I
9.GNDA 10.V21I
11.GNDA 12.V22I
13.GNDA 14.Y21I
15.GNDA 16.C21I
17.GNDA 18.V31I
19.GNDA 20.V32I
21.GNDA 22.Y31I
23.GNDA 24.C31I
25.GNDA 26.V42I
27.GNDA 28.V43I
29.GNDA 30.Y41I
31.GNDA 32.C41I
33.GNDA 34.GNDA
CN7706
34
1
VI01
DWX2731-
LF

CN7706

(DNP2306-D)

11.4 MAIN ASSY

SIDE A

IC Q

IC1040 IC1041

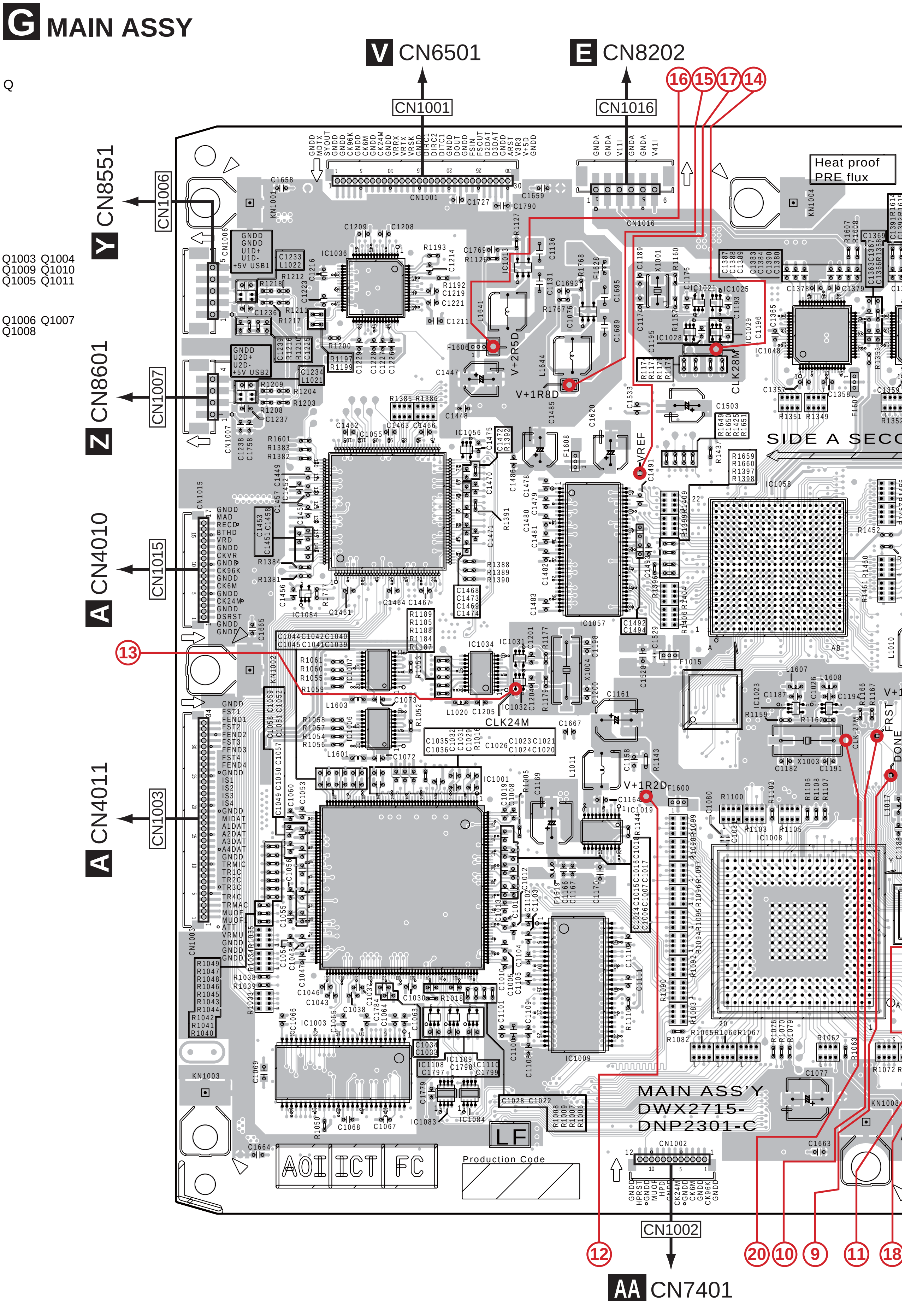
IC1036
IC1013 Q1003 Q1004
Q1009 Q1010
Q1005 Q1011
IC1025 IC1021

IC1076
IC1029 Q1006 Q1007
IC1028 Q1008
IC1038 IC1039
IC1048
IC1049 IC1052
IC1053
IC1050 IC1051
IC1055 IC1056
IC1045
IC1058 IC1043
IC1062

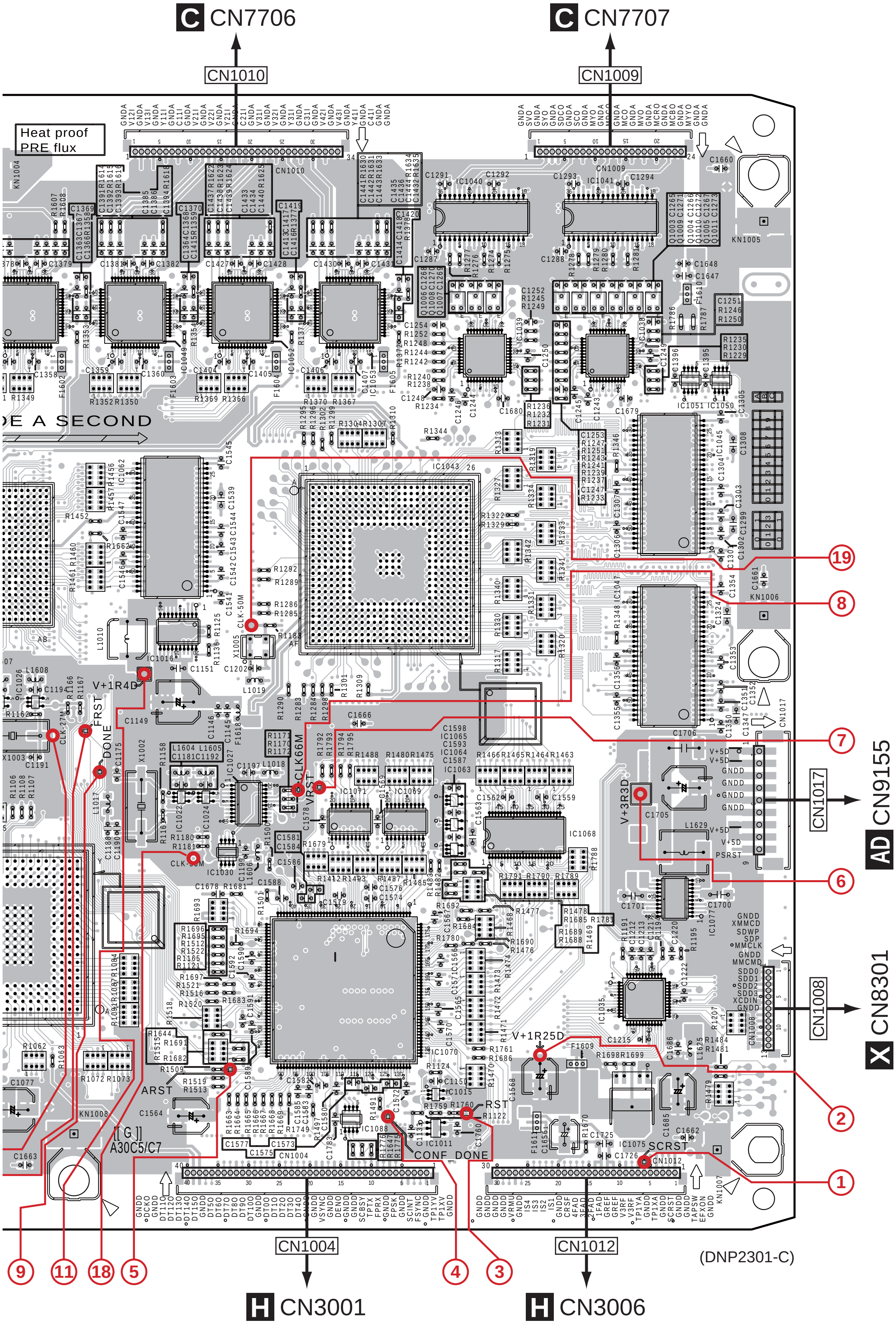
IC1047
IC1054
IC1057
IC1031 IC1034
IC1007 IC1016
IC1023 IC1026
IC1032
IC1006
IC1065
IC1027 IC1064
IC1063
IC1001
IC1071 IC1069
IC1019
IC1022 IC1024
IC1008 IC1068
IC1030

IC1077

IC1035
IC1003
IC1070
IC1109 IC1009
IC1108 IC1110
IC1015
IC1084 IC1088
IC1083
IC1075 IC1011


G MAIN ASSY
V CN6501
E CN8202
CN1001
CN1016
16 15 17 14
Heat proof
PRE flux
Y CN8551
CN1006
Z CN8601
CN1007
A CN4010
CN1015
A CN4011
CN1003
13
V+2R5D
V+1R8D
VREF
CLK28M
SIDE A SECO
CLK24M
V+1R2D
CLK27M
FRST
DONE
MAIN ASS'Y
DWX2715-
DNP2301-C
LF
AOI ICT FC
Production Code
CN1002
12
20 10 9 11 18
AA CN7401

SIDE A


C CN7706
C CN7707
CN1010
CN1009
Heat proof
PRE flux
SIDE A SECOND
V+1R4D
V+3R3D
V+1R25D
CLK-27M
CLK-50M
CLK66M
FRST
DONE
VRST
ARST
CONF_DONE
RST
SCRST
CN1017
AD CN9155
CN1008
X CN8301
CN1004
CN1012
H CN3001
H CN3006
[G]
A30C5/C7
1
2
3
4
5
6
7
8
9
11
18
19

(DNP2301-C)

A B C D E F

NOTE: The encircled numbers denote measuring point.

G

SIDE B

G MAIN ASSY

IC Q

IC1081 IC1037

IC1059

IC1085

IC1044

IC1046

IC1060

IC1061

IC1107

IC1106

IC1066

IC1100

IC1010

IC1101

IC1074

IC1087 Q1015 Q1014

IC1086

IC1012 Q1013

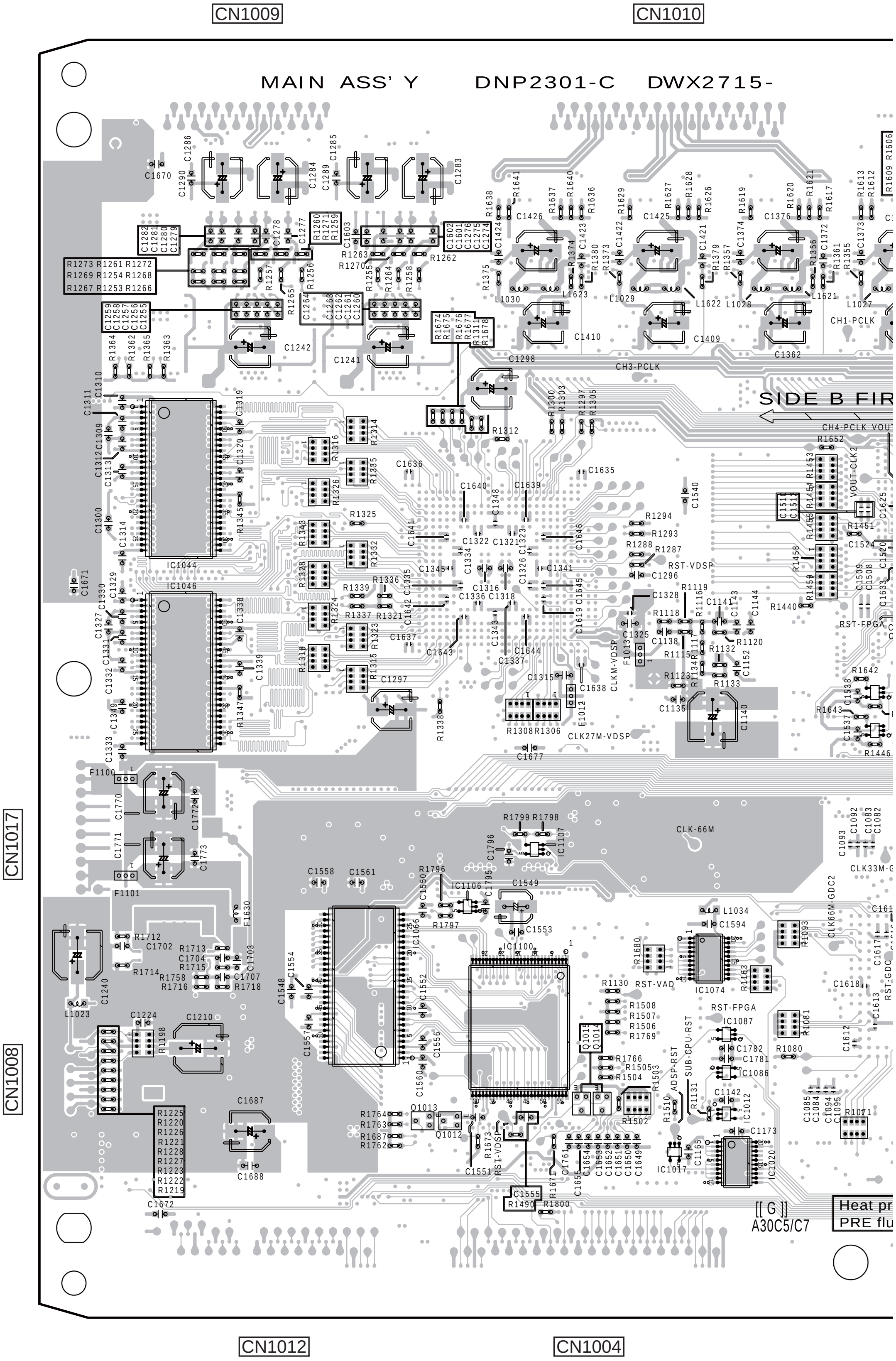
Q1012

IC1102

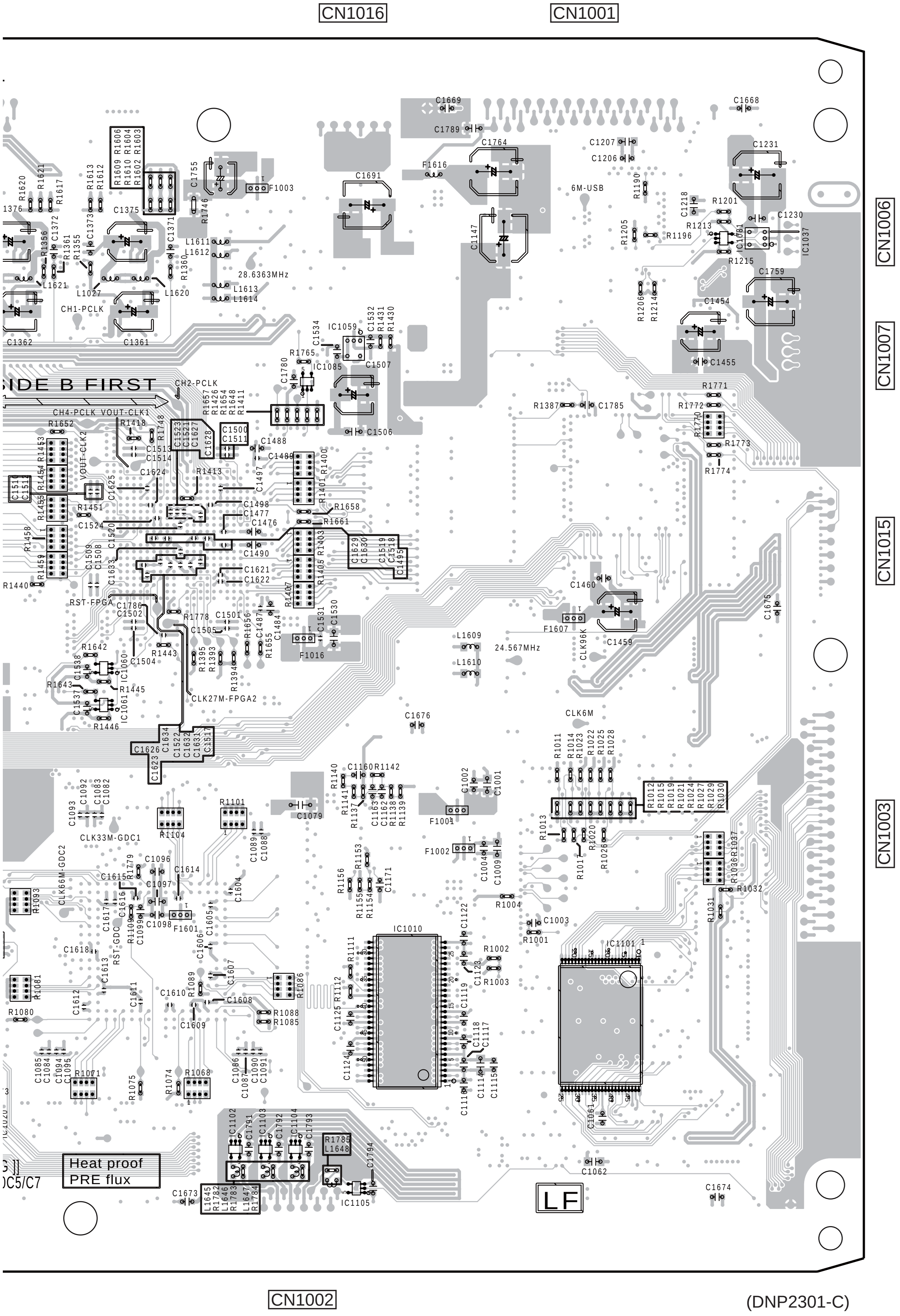
IC1103 IC1020

IC1104 IC1017

IC1105


CN1009
CN1010
MAIN ASS' Y DNP2301-C DWX2715-
SIDE B FIR
CN1017
CN1008
CN1012
CN1004
IC1044
IC1046
IC1106
IC1100
IC1074
IC1087
IC1086
IC1012
IC1017
IC1020
IC1107
CH1-PCLK
CH3-PCLK
CH4-PCLK VOUT
RST-VDSP
CLKM-VDSP
CLK27M-VDSP
RST-FPGA
CLK-66M
CLK33M-G
CLK66M-GDC2
RST-VAD
SUB-CPU-RST
ADSP-RST
RST-VDSP
F1100
F1101
F1630
F1012
F1013
L1023
L1030
L1029
L1028
L1027
L1034
Q1013
Q1012
[[G]]
A30C5/C7
Heat pr
PRE flu

SIDE B


CN1016
CN1001
CN1006
CN1007
CN1015
CN1003
CN1002
SIDE B FIRST
CH1-PCLK
CH2-PCLK
CH4-PCLK VOUT-CLK1
VOUT-CLK2
RST-FPGA
CLK27M-FPGA2
CLK33M-GDC1
CLK66M-GDC2
RST-GDC
CLK6M
CLK96K
6M-USB
28.6363MHz
24.567MHz
IC1010
IC1101
IC1059
IC1085
IC1060
IC1061
IC1105
F1003
F1616
F1607
F1016
F1001
F1002
F1601
Heat proof
PRE flux
LF

(DNP2301-C)

A
B
C
D
E
F

11.5 SCPU and CRFD ASSYS

SIDE A

H SCPU ASSY

IC Q

IC3021 IC3023 IC3020 IC3015
IC3022
IC3019 IC3018 IC3016

IC3007
IC3006 Q3006 Q3002
IC3017 IC3013
IC3011 IC3005

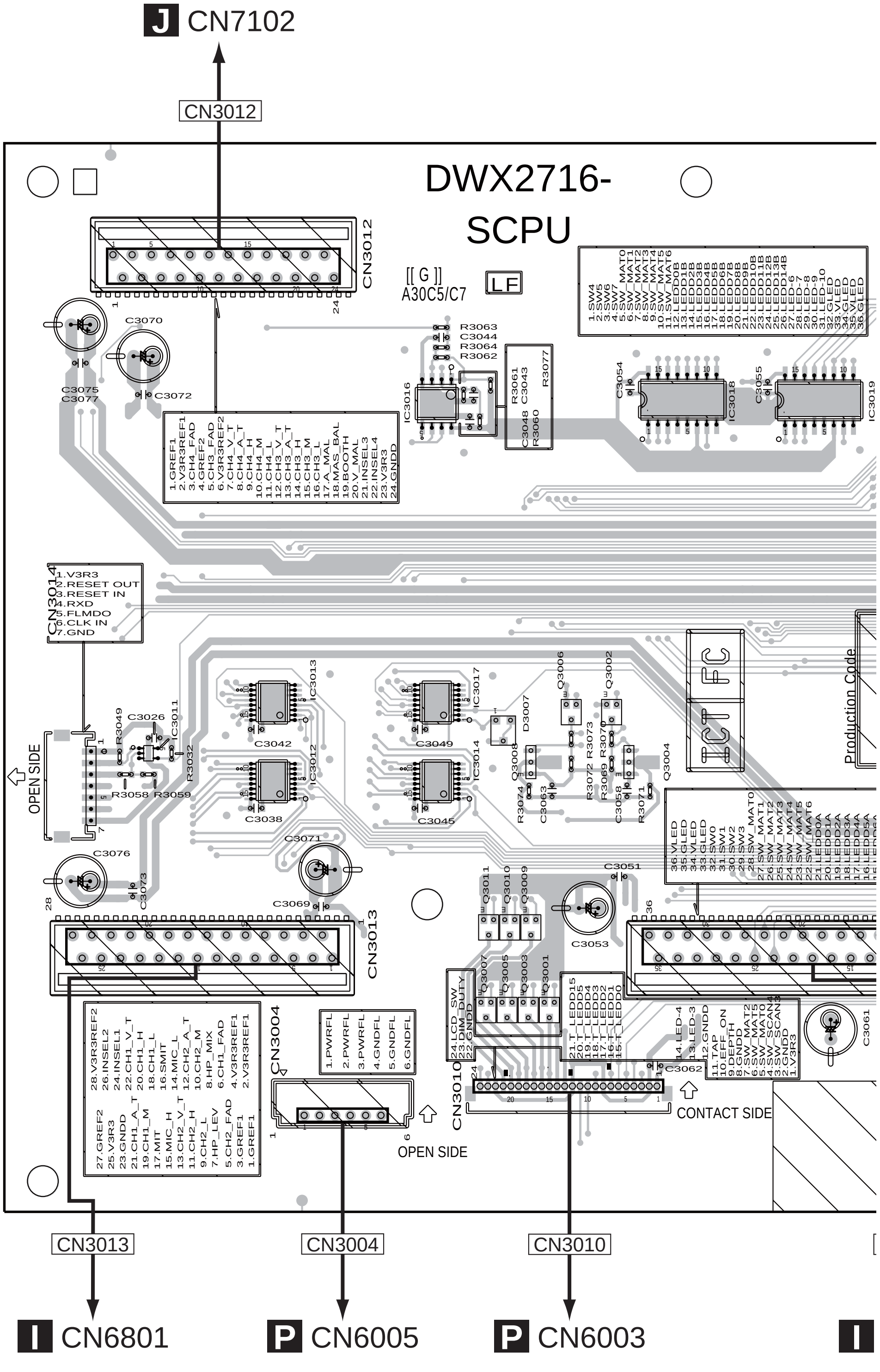
IC3014 IC3012 IC3010 Q3004 Q3008

IC3004

Q3009 Q3010 Q3011
Q3013
IC3008
IC3009
Q3012
Q3001 Q3003 Q3005 Q3007
IC3003

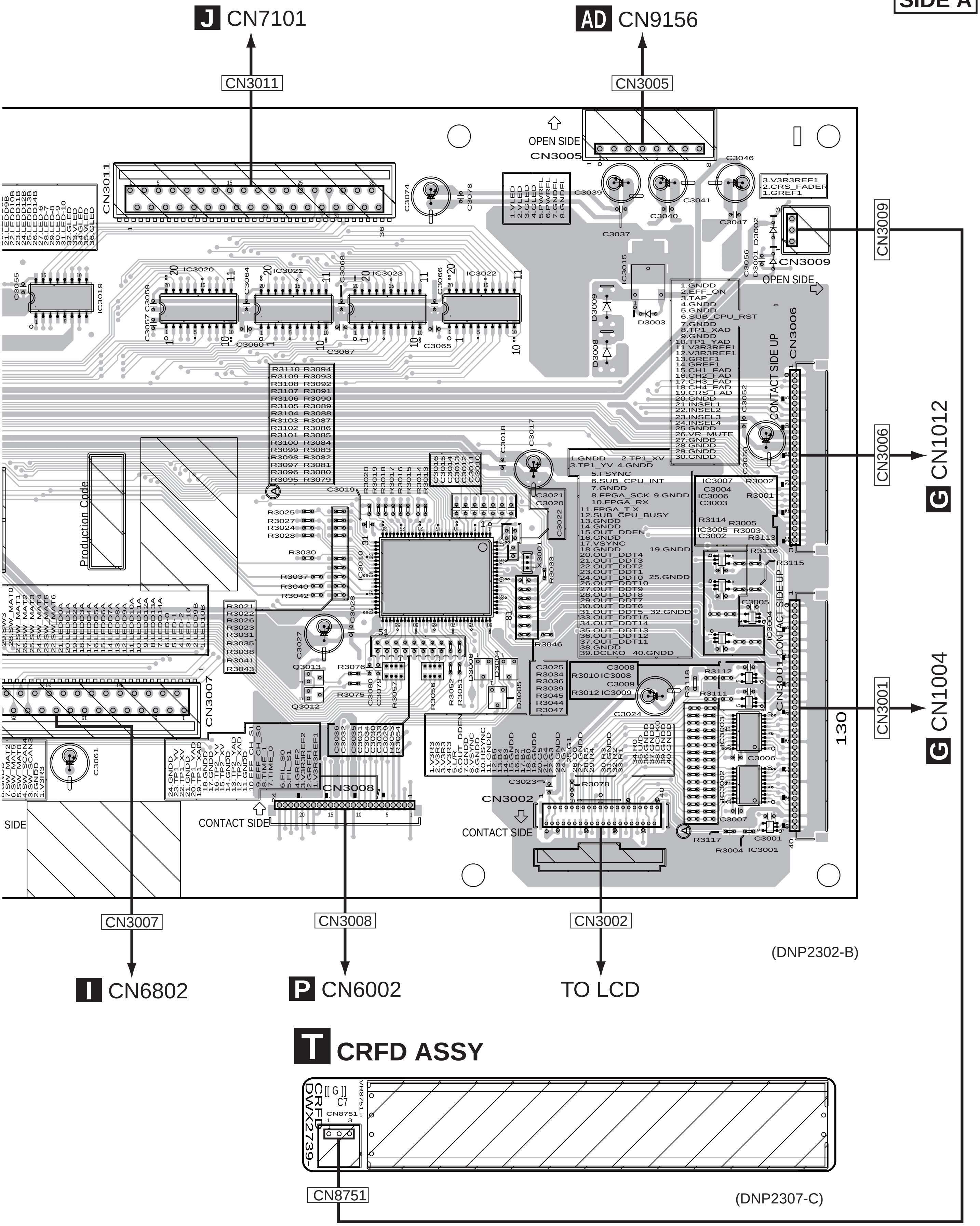
IC3002

IC3001



J CN7102
CN3012
DWX2716-
SCPU
[[G]]
A30C5/C7
LF
1.SW4
2.SW5
3.SW6
4.SW7
5.SW_MAT0
6.SW_MAT1
7.SW_MAT2
8.SW_MAT3
9.SW_MAT4
10.SW_MAT5
11.SW_MAT6
12.LEDD0B
13.LEDD1B
14.LEDD2B
15.LEDD3B
16.LEDD4B
17.LEDD5B
18.LEDD6B
19.LEDD7B
20.LEDD8B
21.LEDD9B
22.LEDD10B
23.LEDD11B
24.LEDD12B
25.LEDD13B
26.LEDD14B
27.LED-6
28.LED-7
29.LED-8
30.LED-9
31.LED-10
32.GLED
33.VLED
34.GLED
35.VLED
36.GLED
1.GREF1
2.V3R3REF1
3.CH4_FAD
4.GREF2
5.CH3_FAD
6.V3R3REF2
7.CH4_V_T
8.CH4_A_T
9.CH4_H
10.CH4_M
11.CH4_L
12.CH3_V_T
13.CH3_A_T
14.CH3_H
15.CH3_M
16.CH3_L
17.A_MAL
18.MAS_BAL
19.BOOTH
20.V_MAL
21.INSEL3
22.INSEL4
23.V3R3
24.GNDD
CN3014
1.V3R3
2.RESET OUT
3.RESET IN
4.RXD
5.FLMDO
6.CLK IN
7.GND
OPEN SIDE
C3070 C3075 C3077 C3072 R3063 C3044 R3064 R3062 IC3016 R3061 C3043 R3077 C3048 R3060 C3054 IC3018 C3055 IC3019
C3026 IC3011 R3049 R3032 R3058 R3059 IC3013 C3042 IC3012 C3038 IC3017 C3049 IC3014 C3045 D3007 Q3006 Q3002 Q3008 R3073 R3072 R3069 R3070 Q3004 R3074 C3063 C3058 R3071
ICT FC
Production Code
C3076 C3073 C3071 C3069 C3051 C3053 C3061 C3062
Q3011 Q3010 Q3009 Q3007 Q3005 Q3003 Q3001
CN3013
36.VLED
35.GLED
34.VLED
33.GLED
32.SW0
31.SW1
30.SW2
29.SW3
28.SW_MAT0
27.SW_MAT1
26.SW_MAT2
25.SW_MAT3
24.SW_MAT4
23.SW_MAT5
22.SW_MAT6
21.LEDD0A
20.LEDD1A
19.LEDD2A
18.LEDD3A
17.LEDD4A
16.LEDD5A
28.V3R3REF2
27.GREF2
26.INSEL2
25.V3R3
24.INSEL1
23.GNDD
22.CH1_V_T
21.CH1_A_T
20.CH1_H
19.CH1_M
18.CH1_L
17.MIT
16.SMIT
15.MIC_H
14.MIC_L
13.CH2_V_T
12.CH2_A_T
11.CH2_H
10.CH2_M
9.CH2_L
8.HP_MIX
7.HP_LEV
6.CH1_FAD
5.CH2_FAD
4.V3R3REF1
3.GREF1
2.V3R3REF1
1.GREF1
CN3004
1.PWRFL
2.PWRFL
3.PWRFL
4.GNDFL
5.GNDFL
6.GNDFL
OPEN SIDE
24.LCD_SW
23.DIM_DUTY
22.GNDD
21.T_LEDD15
20.T_LEDD5
19.T_LEDD4
18.T_LEDD3
17.T_LEDD2
16.T_LEDD1
15.T_LEDD0
14.LED-4
13.LED-3
12.GNDD
11.TAP
10.EFF_ON
9.DEPTH
8.GNDD
7.SW_MAT2
6.SW_MAT5
5.SW_SCAN4
4.SW_SCAN3
3.SW_SCAN3
2.GNDD
1.V3R3
CN3010
CONTACT SIDE
CN3013 CN3004 CN3010
I CN6801
P CN6005
P CN6003
I

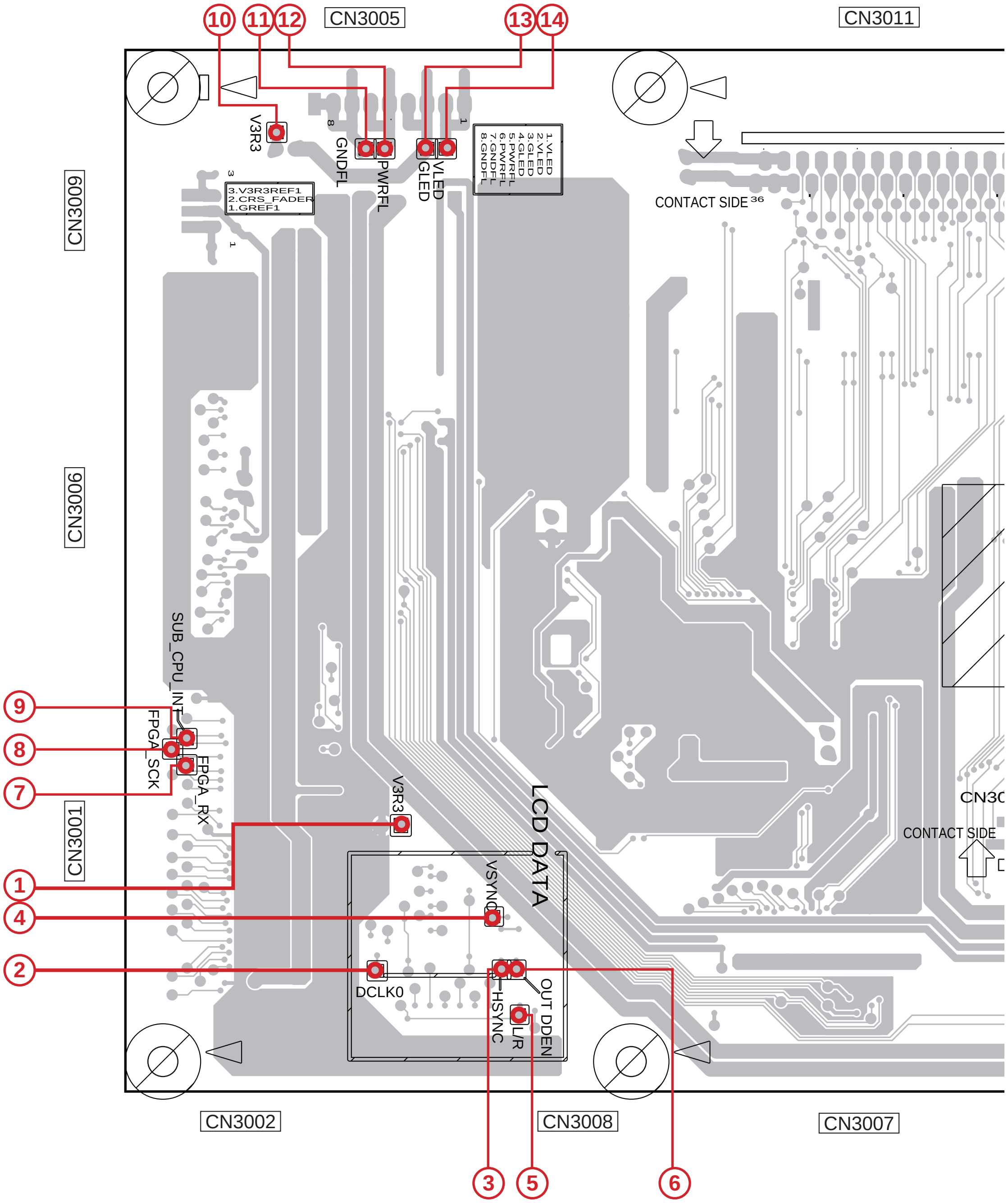
SIDE A


J CN7101
AD CN9156
CN3011
CN3005
OPEN SIDE
CN3009
OPEN SIDE
3.V3R3REF1
2.CRS_FADER
1.GREF1
1.VLED
2.VLED
3.GLED
4.GLED
5.PWRFL
6.PWRFL
7.GNDFL
8.GNDFL
IC3020
IC3021
IC3023
IC3022
IC3019
IC3015
IC3010
X3001
CN3006
1.GNDD
2.EFF_ON
3.TAP
4.GNDD
5.GNDD
6.SUB_CPU_RST
7.GNDD
8.TP1_XAD
9.GNDD
10.TP1_YAD
11.V3R3REF1
12.V3R3REF1
13.GREF1
14.GREF1
15.CH1_FAD
16.CH2_FAD
17.CH3_FAD
18.CH4_FAD
19.CRS_FAD
20.GNDD
21.INSEL1
22.INSEL2
23.INSEL3
24.INSEL4
25.GNDD
26.VR_MUTE
27.GNDD
28.GNDD
29.GNDD
30.GNDD
CONTACT SIDE UP
CN3006
G CN1012
CN3001
G CN1004
CN3001
130
Production Code
CN3007
CN3008
CN3002
CONTACT SIDE
CN3007
CN3008
CN3002
I CN6802
P CN6002
TO LCD
(DNP2302-B)
CRFD ASSY
CRFD DWX2739-
CN8751
CN8751
(DNP2307-C)

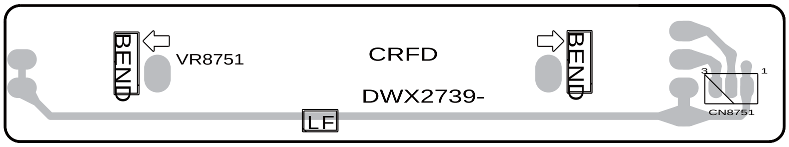
T CRFD ASSY

SIDE B

H SCPU ASSY


10
11
12
CN3005
13
14
CN3011
V3R3
8
GNDFL
PWRFL
GLED
VLED
1
1.VLED
2.VLED
3.GLED
4.GLED
5.PWRFL
6.PWRFL
7.GNDFL
8.GNDFL
3
3.V3R3REF1
2.CRS_FADER
1.GREF1
1
CN3009
CONTACT SIDE
36
CN3006
SUB_CPU_INT
9
8
7
FPGA_SCK
FPGA_RX
V3R3
CN3001
1
4
2
LCD DATA
VSYNC
DCLK0
HSYNC
LR
OUT DDEN
CN30
CONTACT SIDE
CN3002
CN3008
CN3007
3
5
6

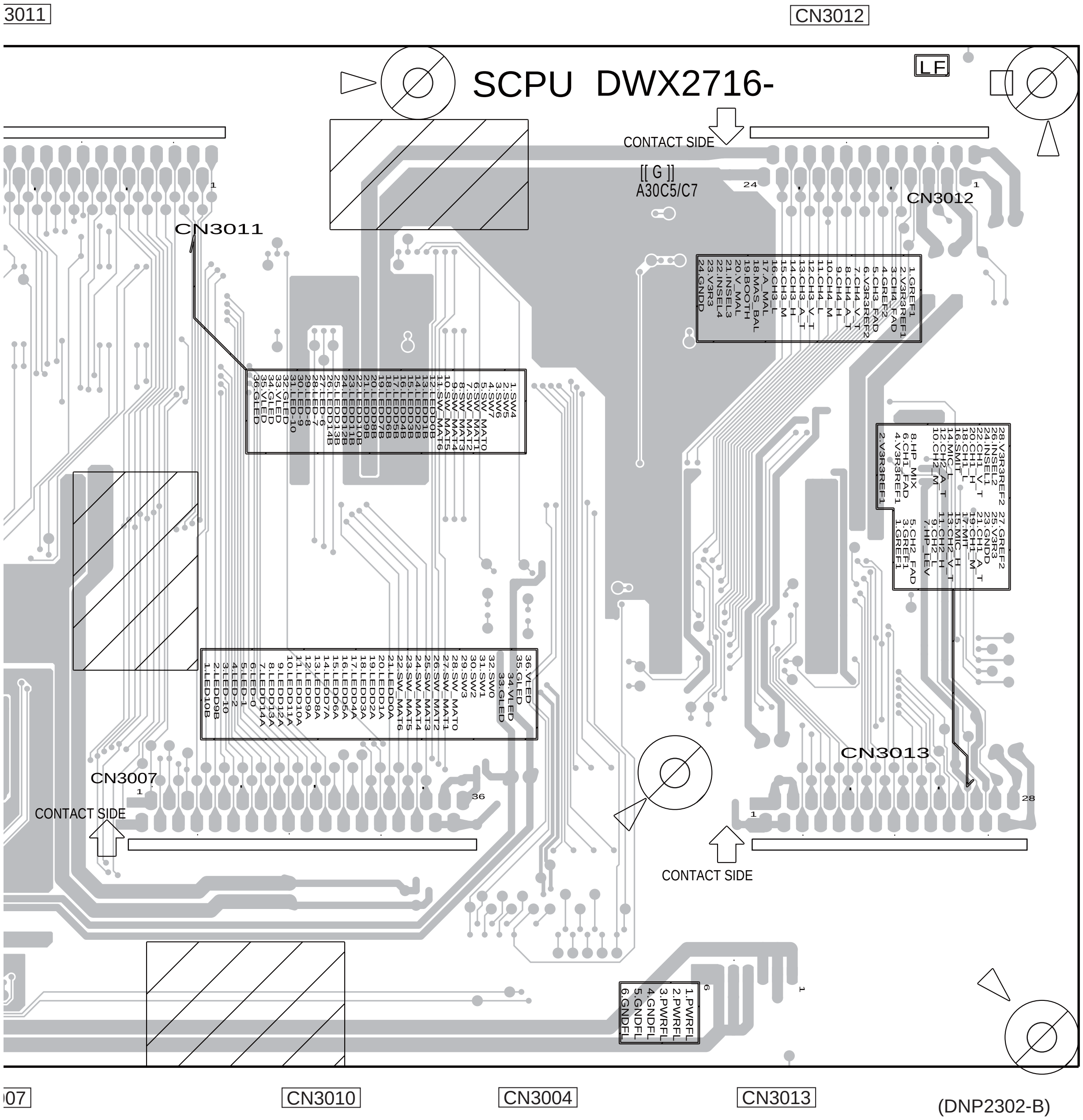
T CRFD ASSY


BEND
VR8751
CRFD
DWX2739-
BEND
3
1
CN8751
LF

(DNP2307-C)

CN8751

SIDE B

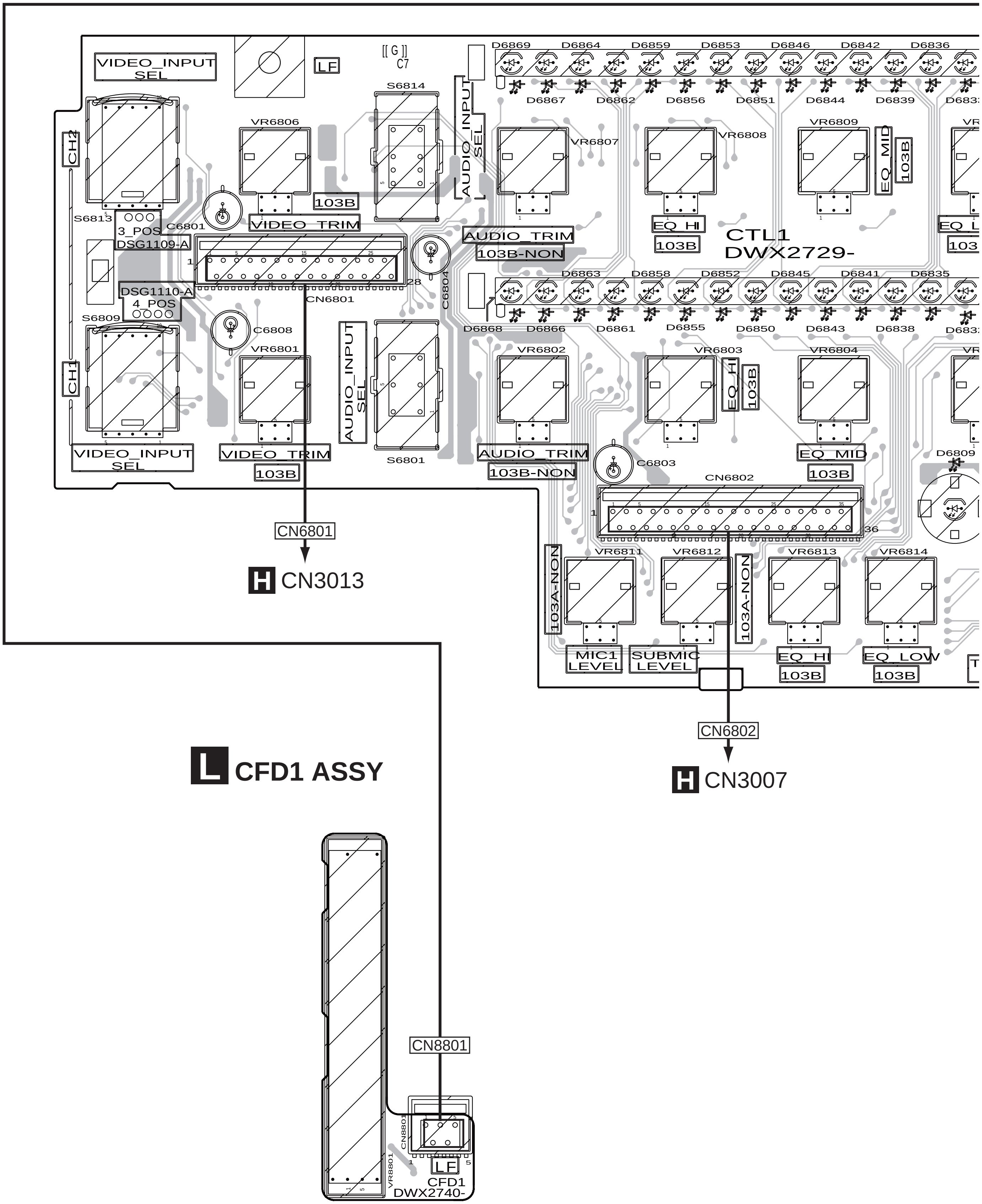

3011
CN3012
SCPU DWX2716-
LF
CONTACT SIDE
[[G]]
A30C5/C7
24
1
CN3012
CN3011
CN3013
CN3007
1
36
28
CONTACT SIDE
CONTACT SIDE
1.PWRFL
2.PWRFL
3.PWRFL
4.GNDFL
5.GNDFL
6.GNDFL
007
CN3010
CN3004
CN3013
(DNP2302-B)

NOTE: The encircled numbers denote measuring point.

11.6 CTL1, CFD1 and CFD2 ASSYS

SIDE A

I CTL1 ASSY

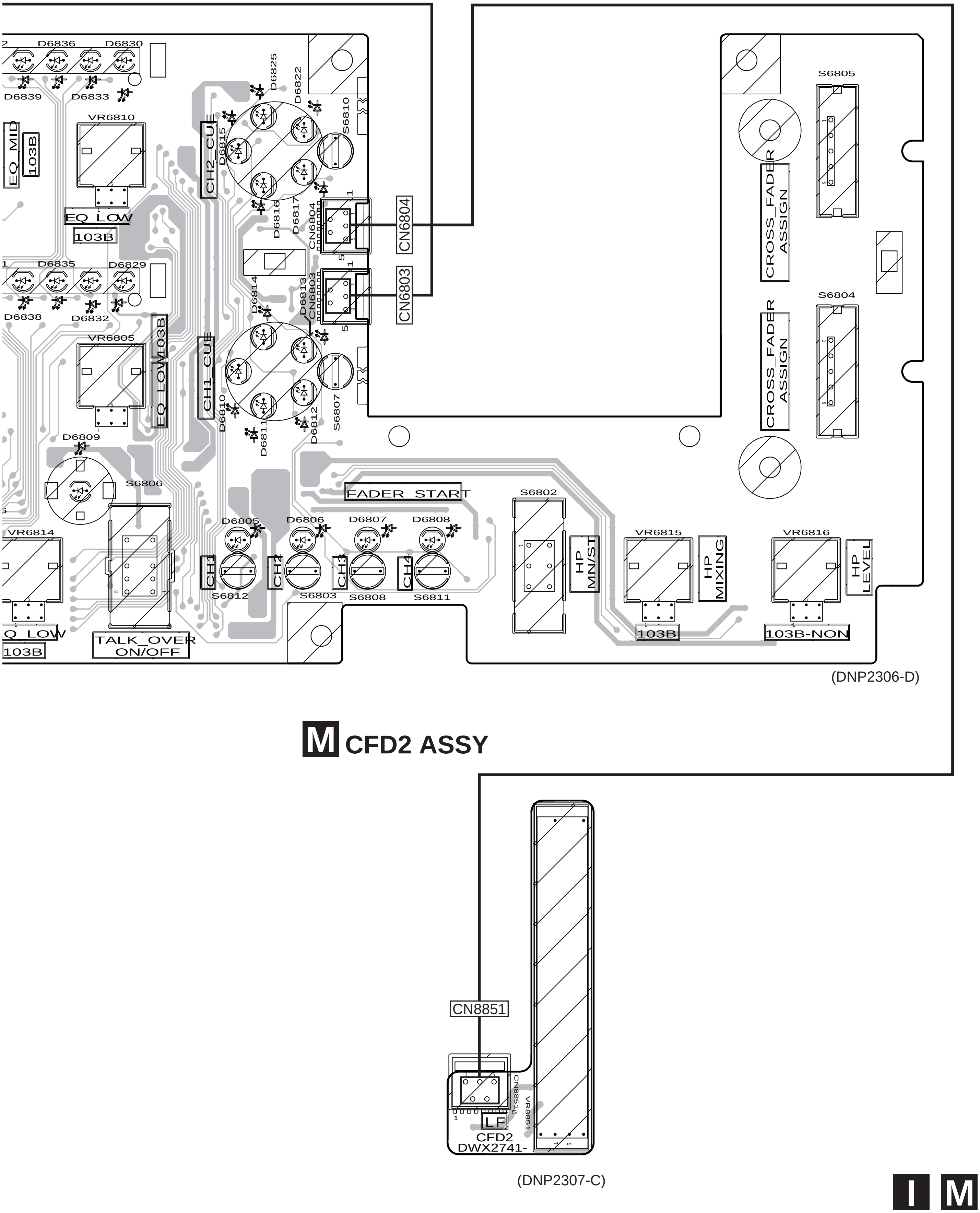

VIDEO_INPUT SEL
LF
[[G]]
C7
S6814
AUDIO_INPUT SEL
D6869
D6864
D6859
D6853
D6846
D6842
D6836
D6867
D6862
D6856
D6851
D6844
D6839
VR6806
VR6807
VR6808
VR6809
EQ_MID
103B
CH2
103B
S6813
3_POS
DSG1109-A
C6801
VIDEO_TRIM
AUDIO_TRIM
103B-NON
EQ_HI
103B
CTL1
DWX2729-
EQ_L
1
28
CN6801
C6804
D6863
D6858
D6852
D6845
D6841
D6835
DSG1110-A
4_POS
S6809
C6808
D6868
D6866
D6861
D6855
D6850
D6843
D6838
VR6801
VR6802
VR6803
VR6804
EQ_HI
103B
CH1
AUDIO_INPUT SEL
VIDEO_INPUT SEL
VIDEO_TRIM
103B
S6801
AUDIO_TRIM
103B-NON
C6803
CN6802
EQ_MID
103B
D6809
1
36
CN6801
H CN3013
103A-NON
VR6811
VR6812
103A-NON
VR6813
VR6814
MIC1 LEVEL
SUBMIC LEVEL
EQ_HI
103B
EQ_LOW
103B
CN6802
H CN3007
CN8801
CN8801
1
5
LF
VR8801
CFD1
DWX2740-

L CFD1 ASSY

(DNP2307-C)

I L

M CFD2 ASSY


D6836
D6830
D6839
D6833
D6825
D6822
S6810
VR6810
EQ_MID
103B
CH2_CUE
D6815
EQ_LOW
103B
D6816
D6817
CN6804
CN6804
1
5
D6835
D6829
D6838
D6832
D6814
D6813
CN6803
CN6803
VR6805
103B
EQ_LOW
CH1_CUE
D6810
D6811
D6812
S6807
D6809
S6806
VR6814
EQ_LOW
103B
TALK_OVER ON/OFF
FADER_START
D6805
D6806
D6807
D6808
CH1
CH2
CH3
CH4
S6812
S6803
S6808
S6811
S6802
HP MN/ST
VR6815
HP MIXING
103B
VR6816
HP LEVEL
103B-NON
S6805
CROSS_FADER ASSIGN
S6804
CROSS_FADER ASSIGN
(DNP2306-D)
CN8851
CN8851
VR8851
LF
CFD2
DWX2741-
1
5
(DNP2307-C)

SIDE B

A

I CTL1 ASSY

Q

Q6808

Q6805 Q6810

Q6827
Q6832
Q6831
Q6802
Q6828
Q6817 Q6829
Q6830

B

Q6816

Q6804

Q6801

Q6815

Q6823 Q6819 Q6826
Q6824 Q6825 Q6822
Q6814 Q6818 Q6820

C

Q6821

Q6809 Q6813
Q6811

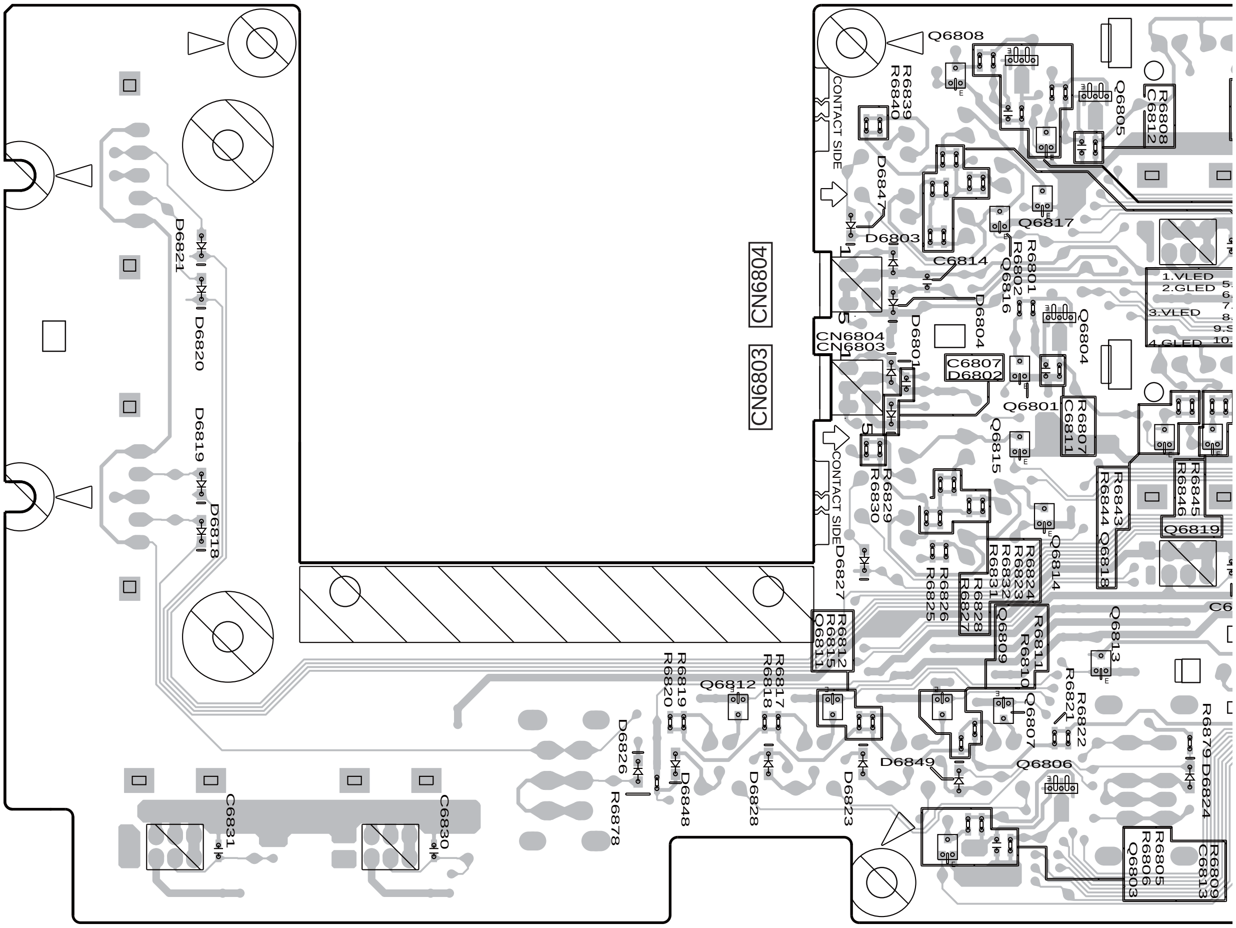
Q6812

Q6807

Q6806

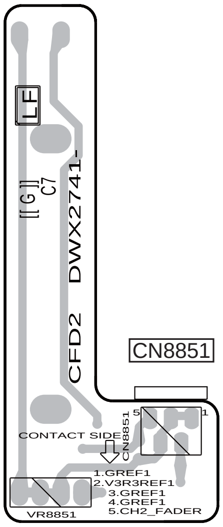
Q6803

D


Q6808
CONTACT SIDE
R6839
R6840
D6847
D6803
C6814
R6801
R6802
Q6816
Q6817
Q6805
R6808
C6812
CN6804
CN6803
1.VLED
2.GLED
3.VLED
4.GLED
D6801
D6804
C6807
D6802
Q6804
Q6801
R6807
C6811
Q6815
R6829
R6830
R6843
R6844
R6845
R6846
Q6819
Q6818
Q6814
D6827
R6824
R6823
R6832
R6831
R6826
R6825
R6828
R6827
Q6809
R6811
R6810
R6812
R6815
Q6811
Q6813
R6821
R6822
Q6807
Q6806
D6849
R6879
D6824
R6819
R6820
Q6812
R6817
R6818
D6826
D6848
D6828
D6823
R6878
R6805
R6806
Q6803
R6809
C6813
D6821
D6820
D6819
D6818
C6831
C6830

M CFD2 ASSY

E

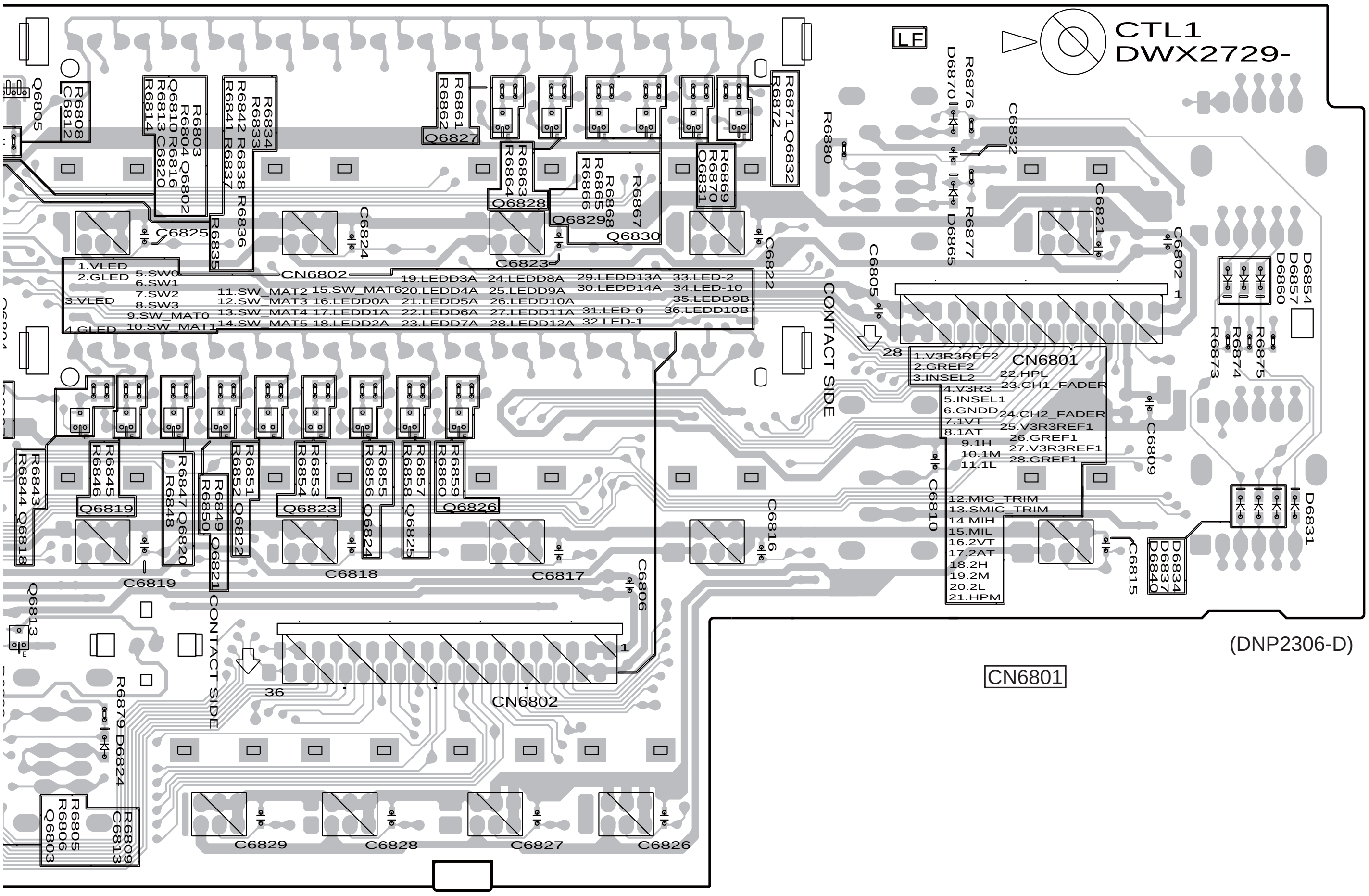

LF
[[G]]
C7
CFD2 DWX2741-
CN8851
CONTACT SIDE
CN8851
5
1
1.GREF1
2.V3R3REF1
3.GREF1
4.GREF1
5.CH2_FADER
VR8851

(DNP2307-C)

F

I M

SIDE B

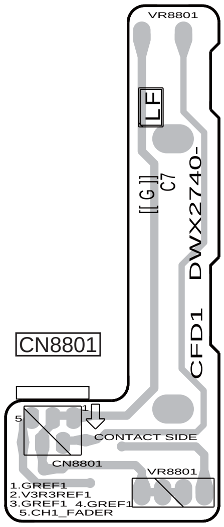

CTL1
DWX2729-
LF
CN6802
1.VLED
2.GLED
3.VLED
4.GLED
5.SW0
6.SW1
7.SW2
8.SW3
9.SW_MAT0
10.SW_MAT1
11.SW_MAT2
12.SW_MAT3
13.SW_MAT4
14.SW_MAT5
15.SW_MAT6
16.LEDD0A
17.LEDD1A
18.LEDD2A
19.LEDD3A
20.LEDD4A
21.LEDD5A
22.LEDD6A
23.LEDD7A
24.LEDD8A
25.LEDD9A
26.LEDD10A
27.LEDD11A
28.LEDD12A
29.LEDD13A
30.LEDD14A
31.LED-0
32.LED-1
33.LED-2
34.LED-10
35.LEDD9B
36.LEDD10B
CN6801
1.V3R3REF2
2.GREF2
3.INSEL2
4.V3R3
5.INSEL1
6.GNDD
7.1VT
8.1AT
9.1H
10.1M
11.1L
12.MIC_TRIM
13.SMIC_TRIM
14.MIH
15.MIL
16.2VT
17.2AT
18.2H
19.2M
20.2L
21.HPM
22.HPL
23.CH1_FADER
24.CH2_FADER
25.V3R3REF1
26.GREF1
27.V3R3REF1
28.GREF1
CONTACT SIDE
CONTACT SIDE
28
1
36
1
C6822
C6823
C6824
C6825
C6805
C6806
C6809
C6810
C6815
C6816
C6817
C6818
C6819
C6821
C6802
C6832
C6826
C6827
C6828
C6829
Q6827
Q6828
Q6829
Q6830
Q6819
Q6823
Q6826

(DNP2306-D)

CN6801

CN6802

L CFD1 ASSY


VR8801
LF
[[G]]
C7
DWX2740-
CFD1
CONTACT SIDE
CN8801
VR8801
5
1
1.GREF1
2.V3R3REF1
3.GREF1 4.GREF1
5.CH1_FADER

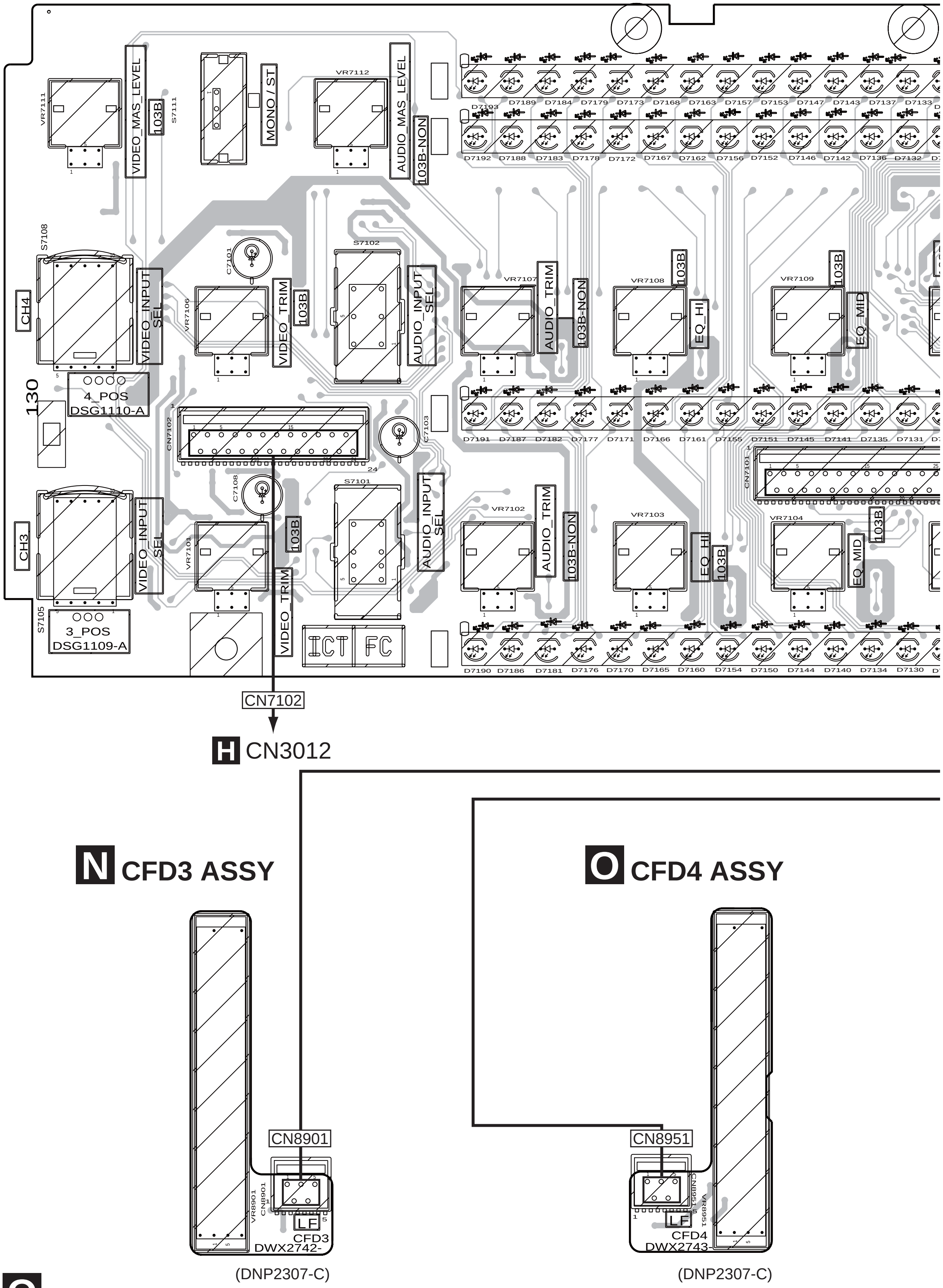
CN8801

(DNP2307-C)

11.7 CTL2A, CFD3, CFD4 and CTL2B ASSYS

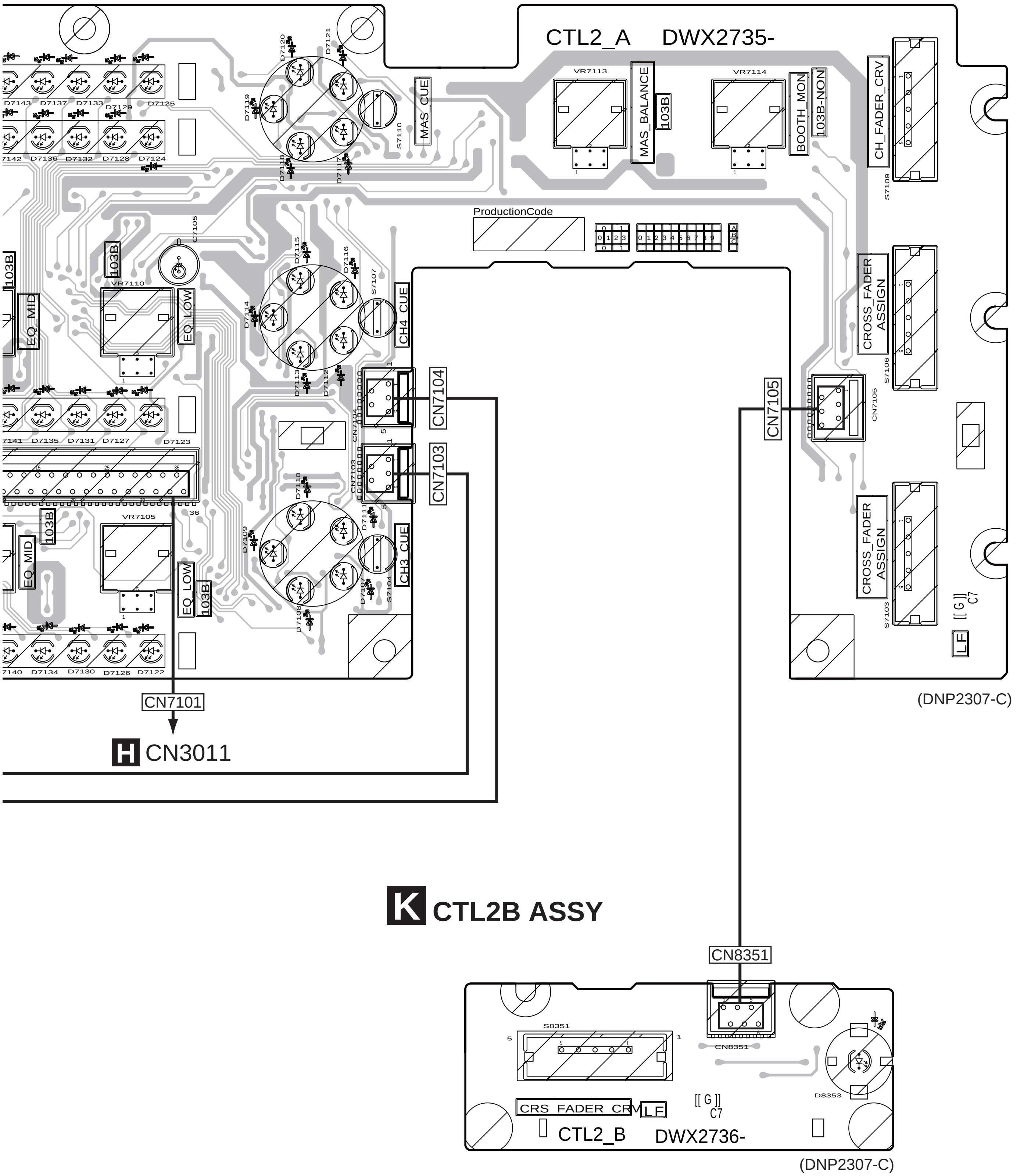
SIDE A

J CTL2A ASSY


VR7111
VIDEO_MAS_LEVEL
103B
S7111
MONO / ST
VR7112
AUDIO_MAS_LEVEL
103B-NON
D7193 D7189 D7184 D7179 D7173 D7168 D7163 D7157 D7153 D7147 D7143 D7137 D7133
D7192 D7188 D7183 D7178 D7172 D7167 D7162 D7156 D7152 D7146 D7142 D7136 D7132
S7108
CH4
VIDEO_INPUT_SEL
C7101
VR7106
VIDEO_TRIM
103B
S7102
AUDIO_INPUT_SEL
VR7107
AUDIO_TRIM
103B-NON
VR7108
103B
EQ_HI
VR7109
103B
EQ_MID
130
4_POS
DSG1110-A
CN7102
C7103
D7191 D7187 D7182 D7177 D7171 D7166 D7161 D7155 D7151 D7145 D7141 D7135 D7131
CN7101
CH3
VIDEO_INPUT_SEL
C7108
VR7101
103B
S7101
AUDIO_INPUT_SEL
VR7102
AUDIO_TRIM
103B-NON
VR7103
EQ_HI
103B
VR7104
EQ_MID
103B
S7105
3_POS
DSG1109-A
VIDEO_TRIM
ICT
FC
D7190 D7186 D7181 D7176 D7170 D7165 D7160 D7154 D7150 D7144 D7140 D7134 D7130
CN7102
H CN3012
N CFD3 ASSY
O CFD4 ASSY
CN8901
VR8901
CN8901
LF
CFD3
DWX2742-
CN8951
CN8951
VR8951
LF
CFD4
DWX2743-
(DNP2307-C)
(DNP2307-C)

SIDE A

K CTL2B ASSY


CTL2_A DWX2735-
VR7113
MAS_BALANCE
103B
VR7114
BOOTH_MON
103B-NON
CH_FADER_CRV
S7109
MAS_CUE
S7110
D7120
D7121
D7119
D7118
D7117
D7143
D7137
D7133
D7129
D7125
D7142
D7136
D7132
D7128
D7124
ProductionCode
C7105
103B
VR7110
EQ_MID
EQ_LOW
D7115
D7116
D7114
D7113
D7112
S7107
CH4_CUE
CN7104
CN7103
CN7105
CROSS_FADER ASSIGN
S7106
D7141
D7135
D7131
D7127
D7123
D7110
D7111
D7109
D7108
D7107
S7104
CH3_CUE
VR7105
36
CROSS_FADER ASSIGN
S7103
[[G]] C7
LF
D7140
D7134
D7130
D7126
D7122
(DNP2307-C)
CN7101
H CN3011
CN8351
S8351
5
1
D8353
CRS_FADER_CRV
LF
[[G]] C7
CTL2_B DWX2736-
(DNP2307-C)

SIDE B

A

J CTL2A ASSY

Q

Q7116 Q7104

Q7108

Q7115

B

Q7107 Q7103
Q7123 Q7124 Q7125
Q7129 Q7130 Q7131
Q7126 Q7127 Q7128
Q7120 Q7121 Q7122
Q7117 Q7118 Q7119
Q7114

Q7113

C

Q7106

Q7102

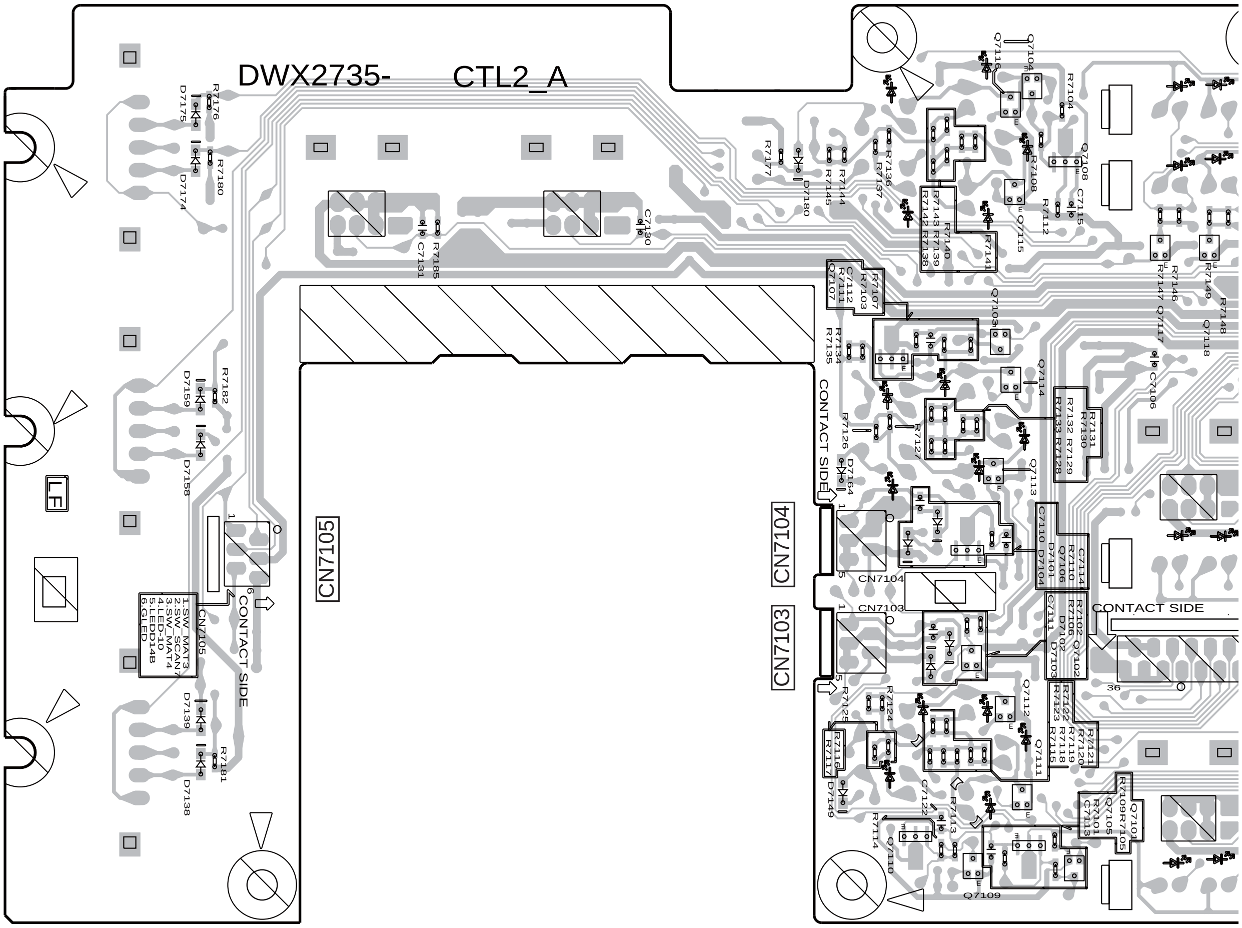
Q7112

Q7111

Q7105
Q7101
Q7110

Q7109

D


DWX2735-
CTL2_A
LF
CN7105
CN7104
CN7103
CONTACT SIDE
CONTACT SIDE
CONTACT SIDE
1.SW_MAT3
2.SW_SCAN7
3.SW_MAT4
4.LED-10
5.LEDD14B
6.GLED
R7176
D7175
R7180
D7174
R7182
D7159
D7158
D7139
R7181
D7138
C7131
R7185
C7130
R7177
D7180
R7144
R7145
R7136
R7137
R7143 R7142
R7140 R7139 R7138
R7141
Q7115
Q7116
Q7104
R7104
R7108
Q7108
C7115
R7112
R7146 R7147
R7149
R7148
Q7117
Q7118
C7106
C7112
R7111
Q7107
R7107
R7103
Q7103
R7134
R7135
Q7114
R7126
R7127
R7132 R7133
R7131 R7130
R7129 R7128
D7164
Q7113
C7110
D7104
D7101
Q7106
R7110
C7114
C7111
D7103
D7102
R7106
R7102
Q7102
R7122
R7123
R7125
R7124
Q7112
R7119
R7118
R7115
R7121
R7120
Q7111
R7116
R7117
D7149
C7122
R7113
R7114
Q7110
Q7109
R7109
R7105
Q7105
R7101
C7113
Q7101
36

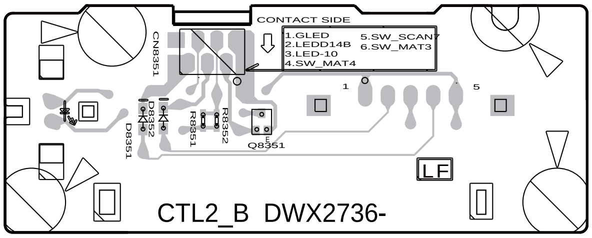
K CTL2B ASSY

IC Q

CN8351

E

Q8351

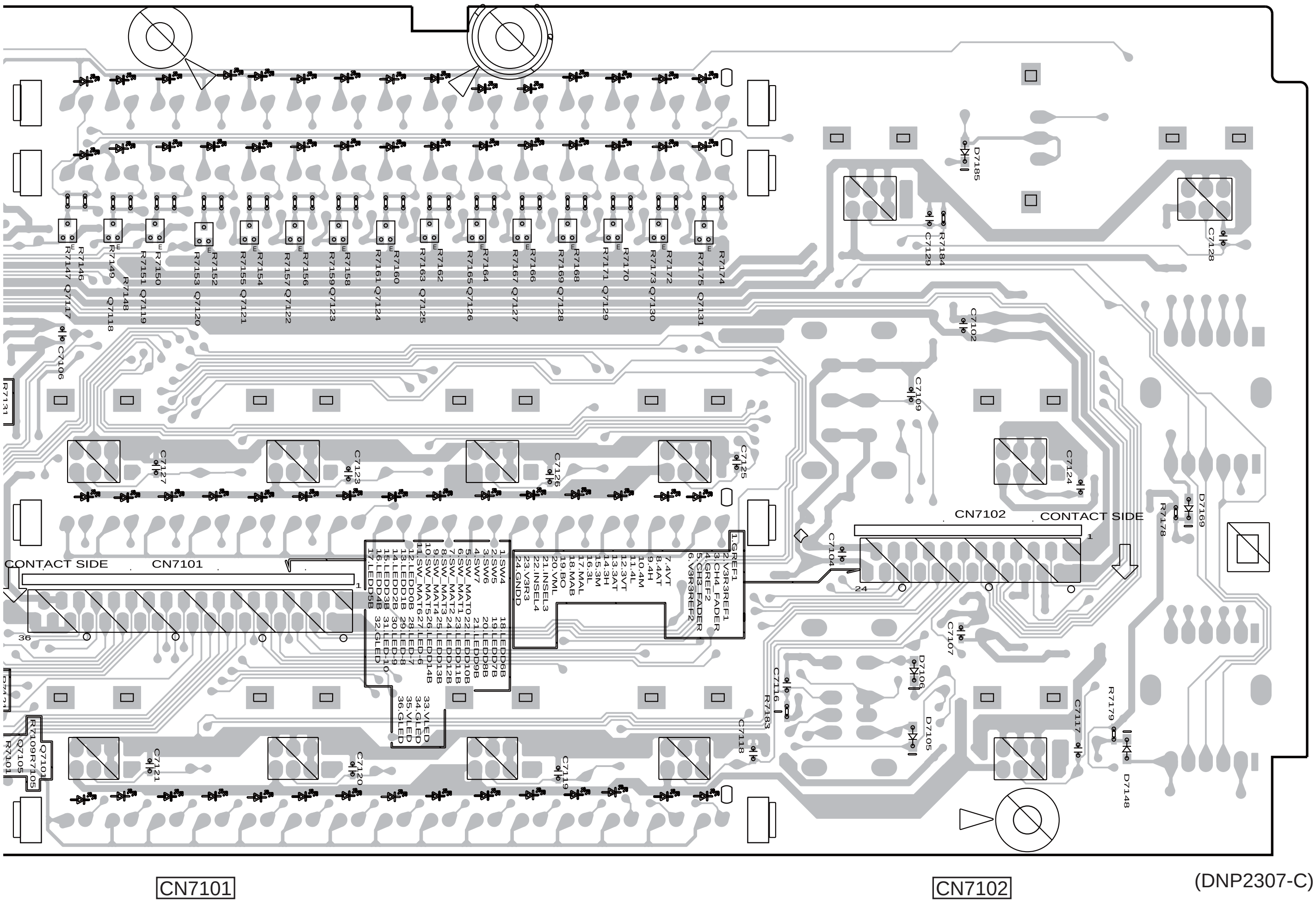

CONTACT SIDE
CN8351
1.GLED
2.LEDD14B
3.LED-10
4.SW_MAT4
5.SW_SCAN7
6.SW_MAT3
1
5
D8352
D8351
R8351
R8352
Q8351
LF
CTL2_B DWX2736-

(DNP2307-C)

F

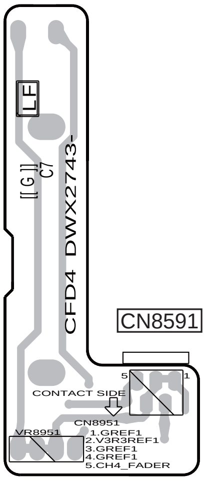
J K

SIDE B


CN7101
CONTACT SIDE
36
1
CN7102
CONTACT SIDE
24
1
1.SW4
2.SW5
3.SW6
4.SW7
5.SW_MAT0
6.SW_MAT1
7.SW_MAT2
8.SW_MAT3
9.SW_MAT4
10.SW_MAT5
11.SW_MAT6
12.LEDD0B
13.LEDD1B
14.LEDD2B
15.LEDD3B
16.LEDD4B
17.LEDD5B
18.LEDD6B
19.LEDD7B
20.LEDD8B
21.LEDD9B
22.LEDD10B
23.LEDD11B
24.LEDD12B
25.LEDD13B
26.LEDD14B
27.LED-6
28.LED-7
29.LED-8
30.LED-9
31.LED-10
32.GLED
33.VLED
34.GLED
35.VLED
36.GLED
1.GREF1
2.V3R3REF1
3.CH4_FADER
4.GREF2
5.CH3_FADER
6.V3R3REF2
7.4VT
8.4AT
9.4H
10.4M
11.4L
12.3VT
13.3AT
14.3H
15.3M
16.3L
17.MAL
18.MAB
19.BO
20.VML
21.INSEL3
22.INSEL4
23.V3R3
24.GNDD
R7146 R7147 Q7117
R7149 R7148 Q7118
R7150 R7151 Q7119
R7152 R7153 Q7120
R7154 R7155 Q7121
R7156 R7157 Q7122
R7158 R7159 Q7123
R7160 R7161 Q7124
R7162 R7163 Q7125
R7164 R7165 Q7126
R7166 R7167 Q7127
R7168 R7169 Q7128
R7170 R7171 Q7129
R7172 R7173 Q7130
R7174 R7175 Q7131
C7106
R7131
C7127
C7123
C7126
C7125
C7121
C7120
C7119
C7118
C7116
R7183
C7104
C7107
C7109
C7102
C7124
C7117
C7128
C7129
R7184
D7185
D7169
R7178
R7179
D7148
D7105
D7106
R7101
Q7101
Q7105
R7109
R7105

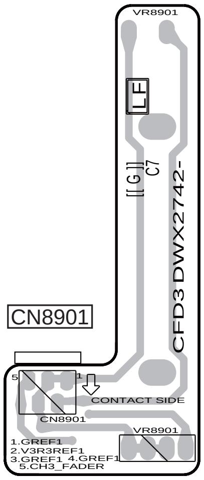
(DNP2307-C)

O CFD4 ASSY


LF
[[G]]
C7
CFD4 DWX2743-
CN8591
5
1
CONTACT SIDE
CN8951
VR8951
1.GREF1
2.V3R3REF1
3.GREF1
4.GREF1
5.CH4_FADER

(DNP2307-C)

N CFD3 ASSY

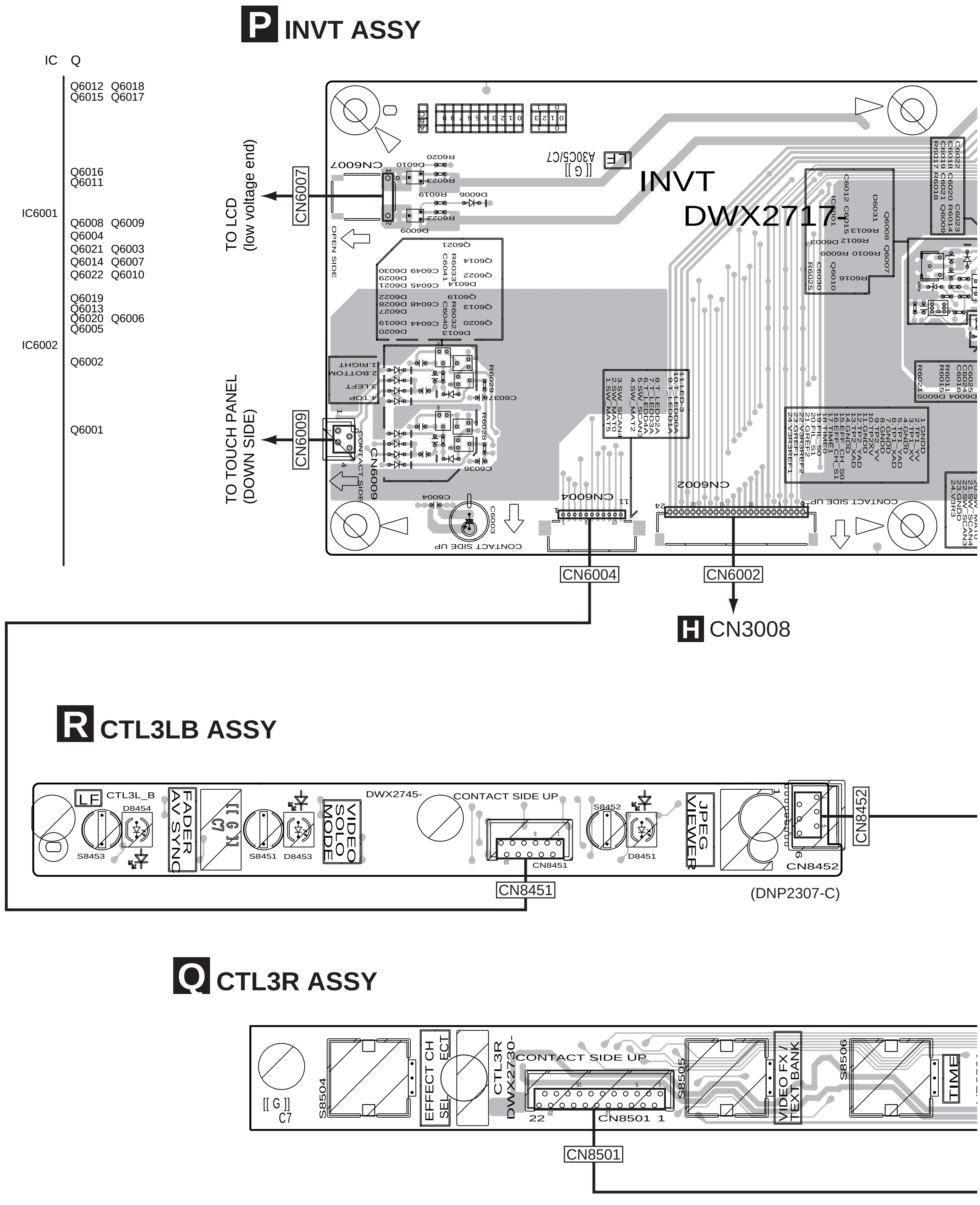

VR8901
LF
[[G]]
C7
CFD3 DWX2742-
CN8901
5
1
CONTACT SIDE
CN8901
VR8901
1.GREF1
2.V3R3REF1
3.GREF1 4.GREF1
5.CH3_FADER

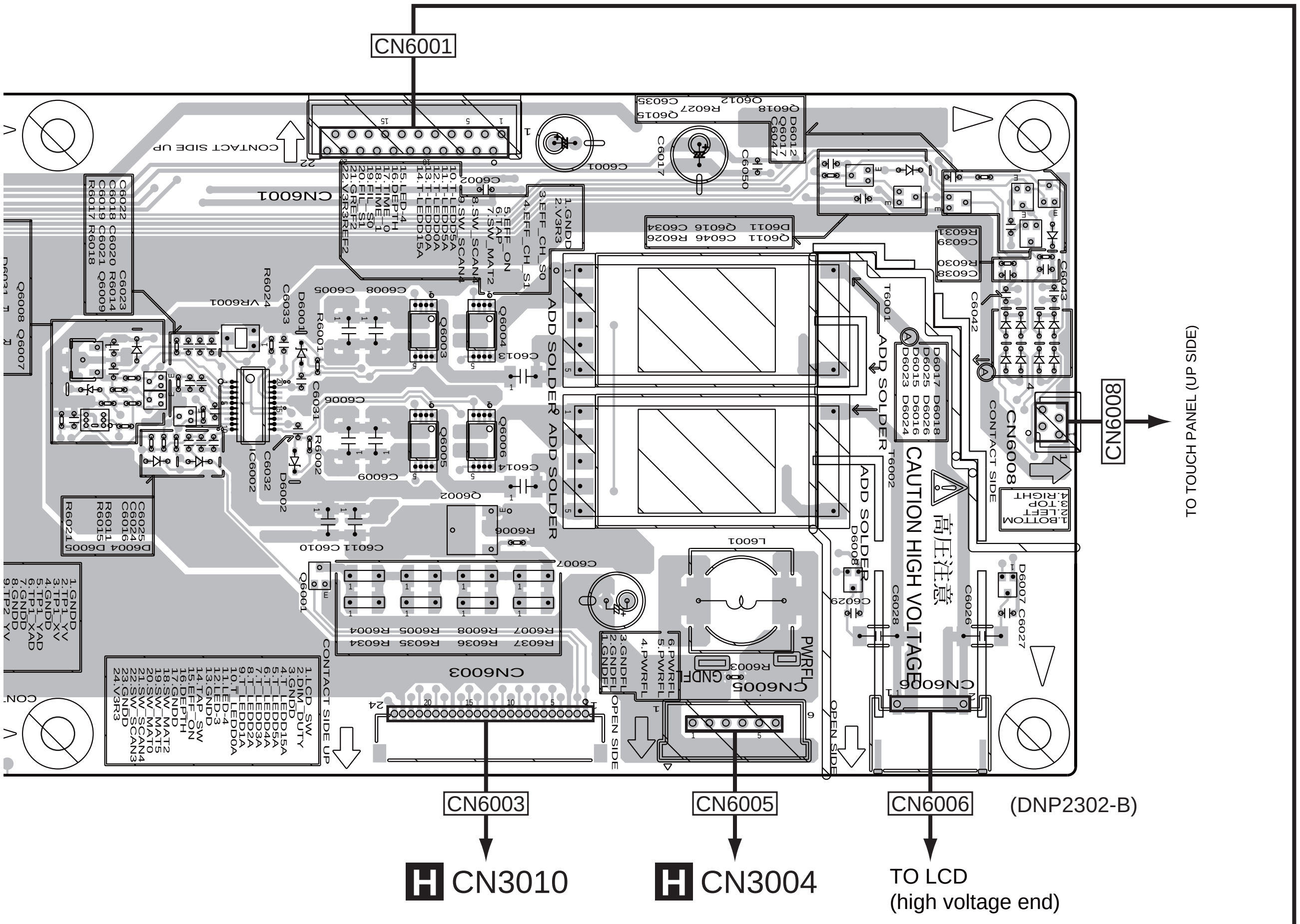
(DNP2307-C)

J N O

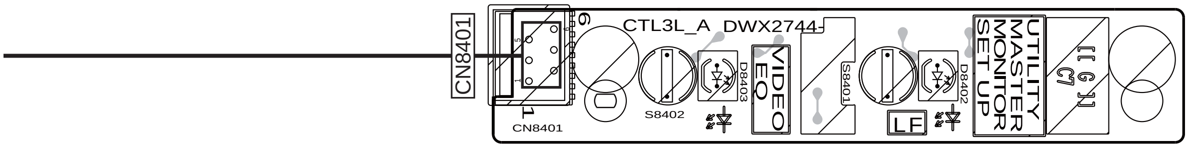
11.8 INVT, CTL3R, CTL3LB and CTL3LA ASSYS

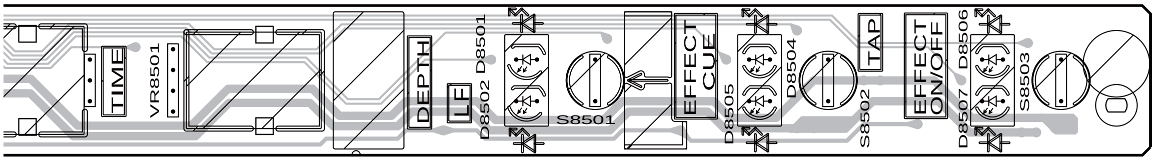
SIDE A


P INVT ASSY
IC Q
Q6012 Q6018
Q6015 Q6017
Q6016
Q6011
IC6001
Q6008 Q6009
Q6004
Q6021 Q6003
Q6014 Q6007
Q6022 Q6010
Q6019
Q6013
Q6020 Q6006
Q6005
IC6002
Q6002
Q6001
TO LCD
(low voltage end)
CN6007
TO TOUCH PANEL
(DOWN SIDE)
CN6009
INVT
DWX2717-
LF
A30C5/C7
[[G]]
OPEN SIDE
CONTACT SIDE UP
CN6004
CN6002
H CN3008
1.RIGHT
2.BOTTOM
3.LEFT
4.TOP
R CTL3LB ASSY
CTL3L_B
LF
FADER
AV SYNC
[[G]]
C7
VIDEO
SOLO
MODE
DWX2745-
CONTACT SIDE UP
JPEG
VIEWER
S8453
D8454
S8451
D8453
S8452
D8451
CN8451
CN8452
(DNP2307-C)
Q CTL3R ASSY
[[G]]
C7
S8504
EFFECT CH
SEL
ECT
CTL3R
DWX2730-
CONTACT SIDE UP
22
CN8501 1
S8505
VIDEO FX /
TEXT BANK
S8506
TIME
CN8501


CN6001
CN6001
CONTACT SIDE UP
ADD SOLDER
CAUTION HIGH VOLTAGE
高圧注意
TO TOUCH PANEL (UP SIDE)
CN6008
CN6008
CONTACT SIDE
1.BOTTOM
2.LEFT
3.TOP
4.RIGHT
1.GNDD
2.V3R3
3.EFF_CH_S0
4.EFF_CH_S1
5.EFF_ON
6.TAP
7.SW_MAT2
8.SW_SCAN2
9.SW_SCAN4
10.T_LEDD5A
11.T_LEDD5A
12.T_LEDD4A
13.T_LEDD3A
14.T_LEDD15A
15.LED_4
16.DEPTH
17.TIME_0
18.TIME_1
19.FIL_S0
20.FIL_S1
21.GREF2
22.V3R3REF2
1.GNDD
2.TP1_YV
3.TP1_XV
4.GNDD
5.TP1_YAD
6.TP1_XAD
7.GNDD
8.GNDD
9.TP2_YV
1.LCD_SW
2.DIM_DUTY
3.GNDD
4.T_LEDD15A
5.T_LEDD5A
6.T_LEDD4A
7.T_LEDD3A
8.T_LEDD2A
9.T_LEDD1A
10.T_LEDD0A
11.LED_4
12.LED_3
13.GNDD
14.TAP_SW
15.EFF_ON
16.DEPTH
17.GNDD
18.SW_MAT2
19.SW_MAT5
20.SW_MAT5
21.SW_SCAN4
22.SW_SCAN3
23.GNDD
24.V3R3
CONTACT SIDE UP
CN6003
OPEN SIDE
1.GNDFL
2.GNDFL
3.GNDFL
4.PWRFL
5.PWRFL
6.PWRFL
GNDFL
PWRFL
CN6005
CN6006
OPEN SIDE
T6001
T6002
L6001
IC6002
VR6001
CN6003
CN6005
CN6006
(DNP2302-B)
H CN3010
H CN3004
TO LCD
(high voltage end)

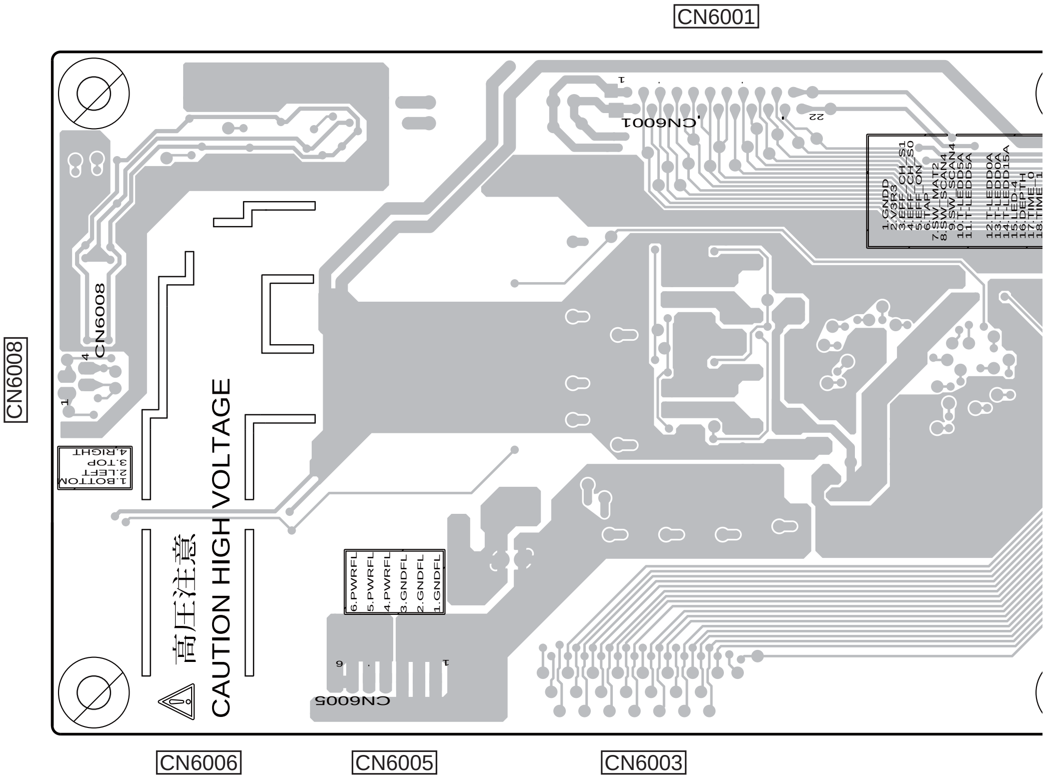
S CTL3LA ASSY


CN8401
CTL3L_A DWX2744-
CN8401
S8402
D8403
VIDEO EQ
S8401
LF
D8402
UTILITY
MASTER
MONITOR
SET UP
(DNP2307-C)

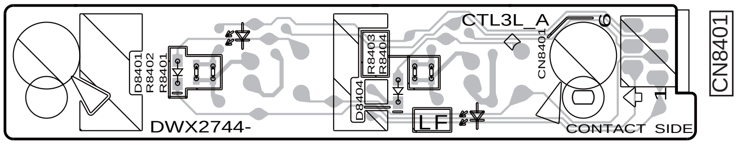

TIME
VR8501
DEPTH
LF
D8502
D8501
S8501
EFFECT CUE
D8505
D8504
S8502
TAP
EFFECT ON/OFF
D8507
D8506
S8503
(DNP2306-D)

SIDE B

P INVT ASSY

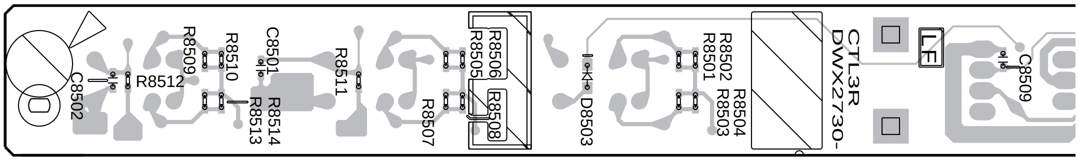

CN6001
CN6001
1
22
1.GNDD
2.V3R3
3.EFF_CH_S1
4.EFF_CH_S0
5.EFF_ON
6.TAP
7.SW_MAT2
8.SW_SCAN4
9.SW_SCAN4
10.T-LEDD5A
11.T-LEDD5A
12.T-LEDD0A
13.T-LEDD0A
14.T-LEDD15A
15.LED-4
16.DEPTH
17.TIME_0
18.TIME_1
CN6008
CN6008
4
1
1.BOTTON
2.LEFT
3.TOP
4.RIGHT
高圧注意
CAUTION HIGH VOLTAGE
6.PWRFL
5.PWRFL
4.PWRFL
3.GNDFL
2.GNDFL
1.GNDFL
6
1
CN6005
CN6006
CN6005
CN6003

S CTL3LA ASSY

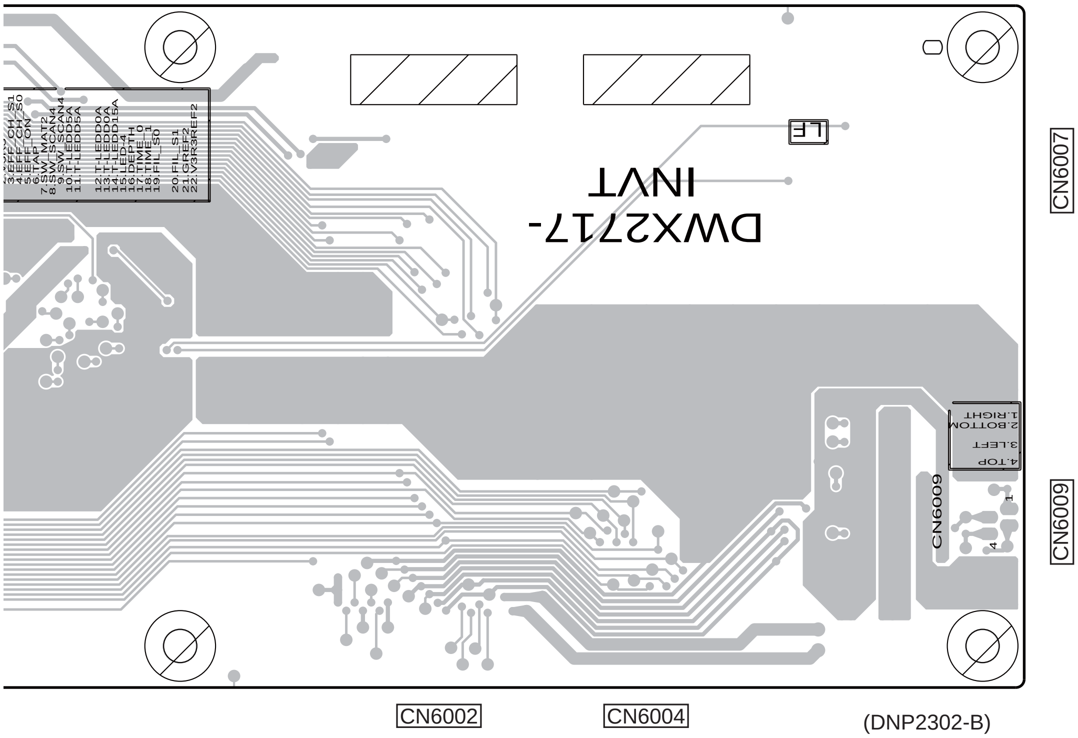

D8401
R8402
R8401
R8403
R8404
D8404
CTL3L_A
CN8401
CN8401
LF
DWX2744-
CONTACT SIDE
1

(DNP2307-C)

Q CTL3R ASSY

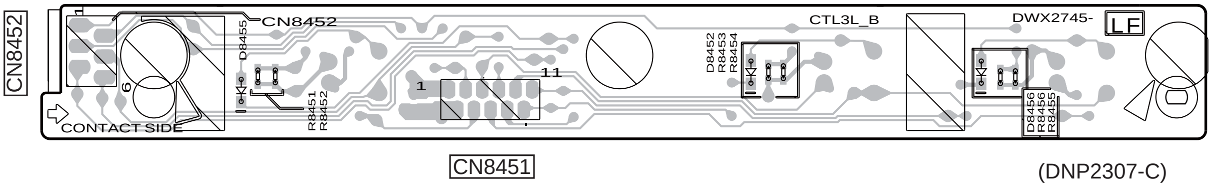

C8502
R8512
R8509
R8510
R8513
R8514
C8501
R8511
R8507
R8505
R8506
R8508
D8503
R8501
R8502
R8503
R8504
CTL3R
DWX2730-
LF
C8509

SIDE B

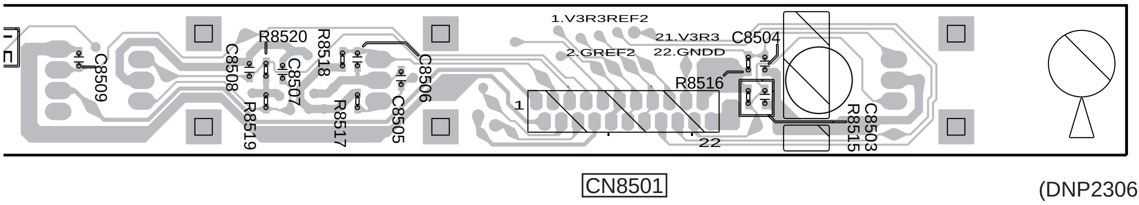

3.EFF_CH_S1
4.EFF_CH_S0
5.EFF_ON
6.TAP
7.SW_MAT2
8.SW_SCAN4
9.SW_SCAN4
10.T-LEDD5A
11.T-LEDD5A
12.T-LEDD0A
13.T-LEDD0A
14.T-LEDD15A
15.LED-4
16.DEPTH
17.TIME_0
18.TIME_1
19.FIL_S0
20.FIL_S1
21.GREF2
22.V3R3REF2
DWX2717-
INVT
LF
CN6007
1.RIGHT
2.BOTTOM
3.LEFT
4.TOP
CN6009
1
4
CN6009
CN6002
CN6004

(DNP2302-B)

R CTL3LB ASSY


CN8452
CN8452
D8455
R8451
R8452
1
11
CONTACT SIDE
CTL3L_B
D8452
R8453
R8454
DWX2745-
LF
D8456
R8456
R8455
CN8451

(DNP2307-C)


C8509
R8520
C8508
C8507
R8519
R8518
R8517
C8506
C8505
1.V3R3REF2
2.GREF2
21.V3R3
22.GNDD
C8504
R8516
1
22
C8503
R8515
CN8501

(DNP2306-D)

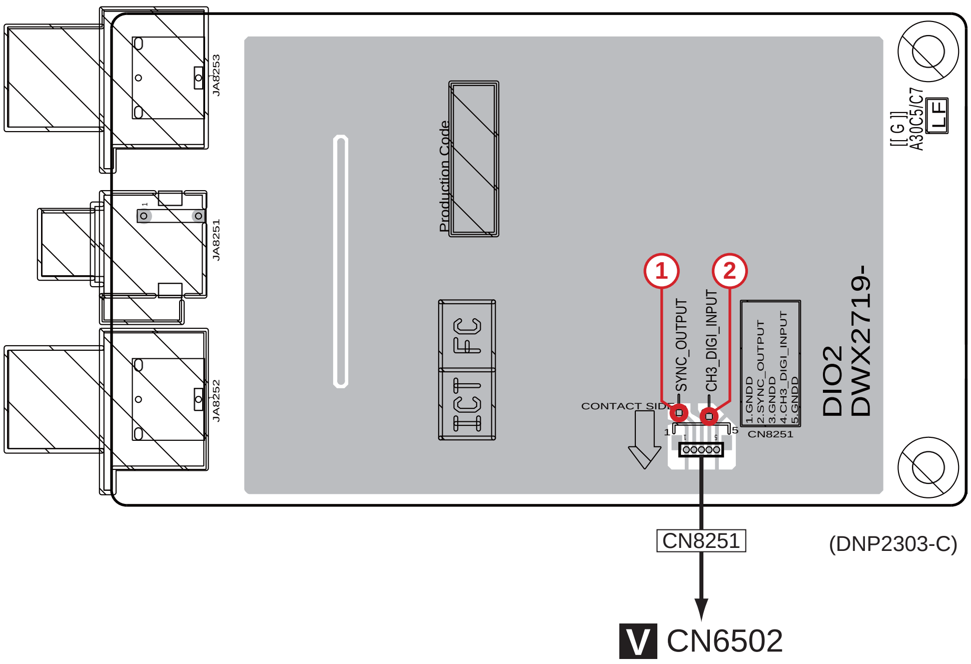
P Q R

11.9 DIO2, SDIO, USB1 and USB2 ASSYS

SIDE A

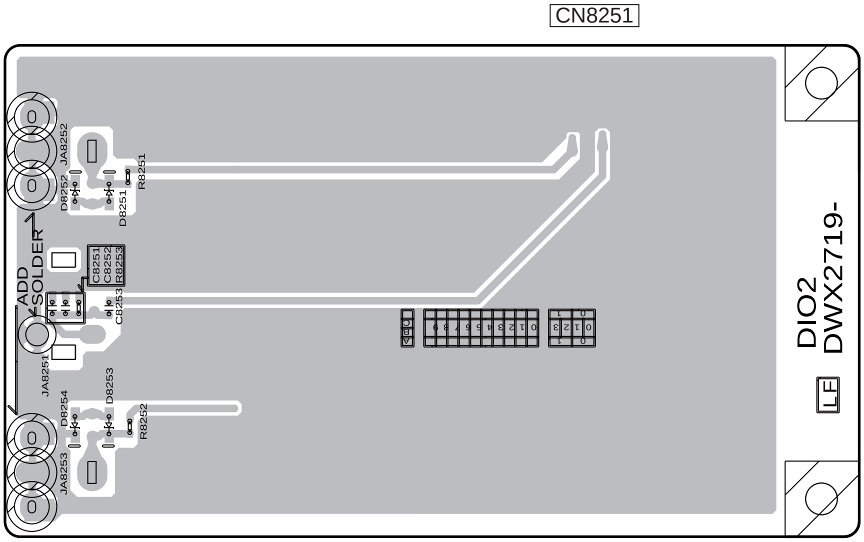
SIDE A

U DIO2 ASSY


JA8253
JA8251
JA8252
Production Code
ICT
FC
①
②
SYNC_OUTPUT
CH3_DIGI_INPUT
CONTACT SIDE
1.GNDD
2.SYNC_OUTPUT
3.GNDD
4.CH3_DIGI_INPUT
5.GNDD
CN8251
1
5
DIO2
DWX2719-
[[G]]
A30C5/C7
LF
CN8251
(DNP2303-C)
V CN6502

SIDE B

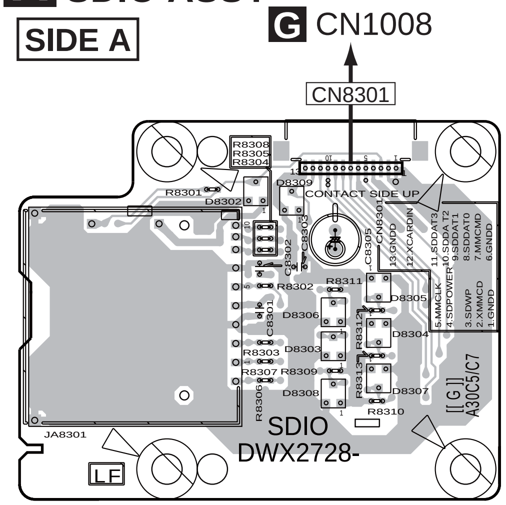
SIDE B


CN8251
JA8252
D8252
D8251
R8251
ADD SOLDER
C8251
C8252
R8253
C8253
JA8251
D8254
D8253
R8252
JA8253
DIO2
DWX2719-
LF

(DNP2303-C)

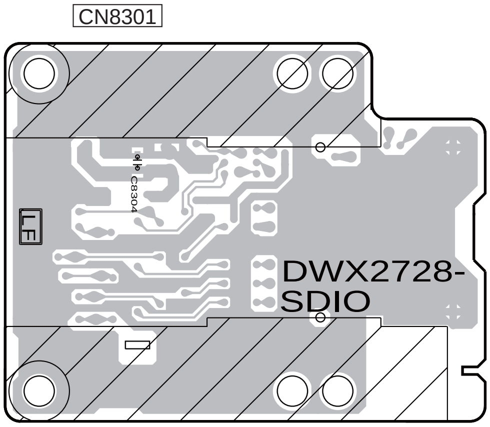
X SDIO ASSY

SIDE A


G CN1008
CN8301
R8308
R8305
R8304
R8301
D8302
D8309
CONTACT SIDE UP
C8302
C8303
C8305
CN8301
13.GNDD
12.XCARDIN
11.SDDAT3
10.SDDAT2
9.SDDAT1
8.SDDAT0
7.MMCMD
6.GNDD
5.MMCLK
4.SDPOWER
3.SDWP
2.XMMCD
1.GNDD
R8311
R8302
D8305
C8301
D8306
R8312
D8304
R8303
D8303
R8307
R8309
R8313
D8308
D8307
R8306
R8310
[[G]]
A30C5/C7
SDIO
DWX2728-
JA8301
LF

(DNP2305-C)

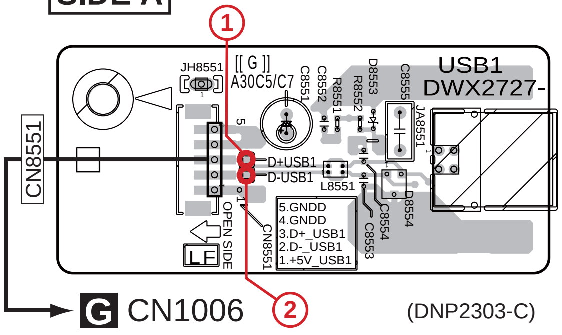
SIDE B


CN8301
C8304
LF
DWX2728-
SDIO

(DNP2305-C)

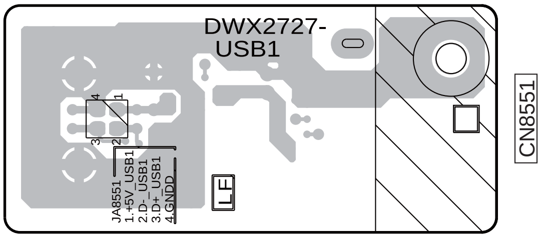
Y USB1 ASSY

SIDE A


①
JH8551
[[G]]
A30C5/C7
C8551
C8552
R8551
R8552
D8553
C8555
USB1
DWX2727-
JA8551
CN8551
D+USB1
D-USB1
L8551
D8554
C8554
C8553
5.GNDD
4.GNDD
3.D+_USB1
2.D-_USB1
1.+5V_USB1
OPEN SIDE
CN8551
LF
G CN1006
②

(DNP2303-C)

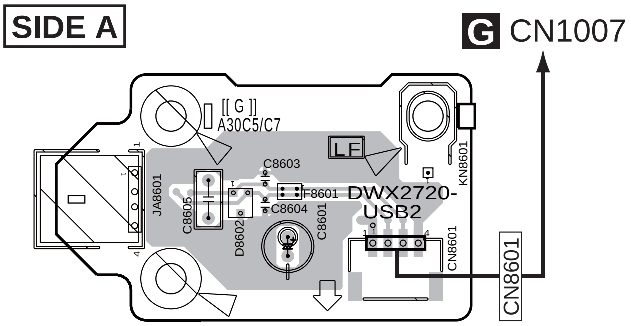
SIDE B


DWX2727-
USB1
JA8551
1.+5V_USB1
2.D-_USB1
3.D+_USB1
4.GNDD
LF
CN8551

(DNP2303-C)

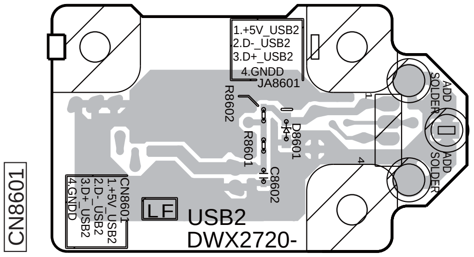
Z USB2 ASSY

SIDE A


G CN1007
[[G]]
A30C5/C7
LF
KN8601
C8603
JA8601
C8605
F8601
DWX2720-
USB2
C8604
D8602
C8601
CN8601
CN8601

(DNP2305-C)

SIDE B


1.+5V_USB2
2.D-_USB2
3.D+_USB2
4.GNDD
JA8601
R8602
R8601
D8601
C8602
ADD SOLDER
ADD SOLDER
CN8601
1.+5V_USB2
2.D-_USB2
3.D+_USB2
4.GNDD
LF
USB2
DWX2720-
CN8601

(DNP2305-C)

11.10 DIO1 and MIDI ASSYS

SIDE A

IC Q

IC6504 IC6502
IC6509 IC6506
IC6510 IC6519

IC6508
IC6507

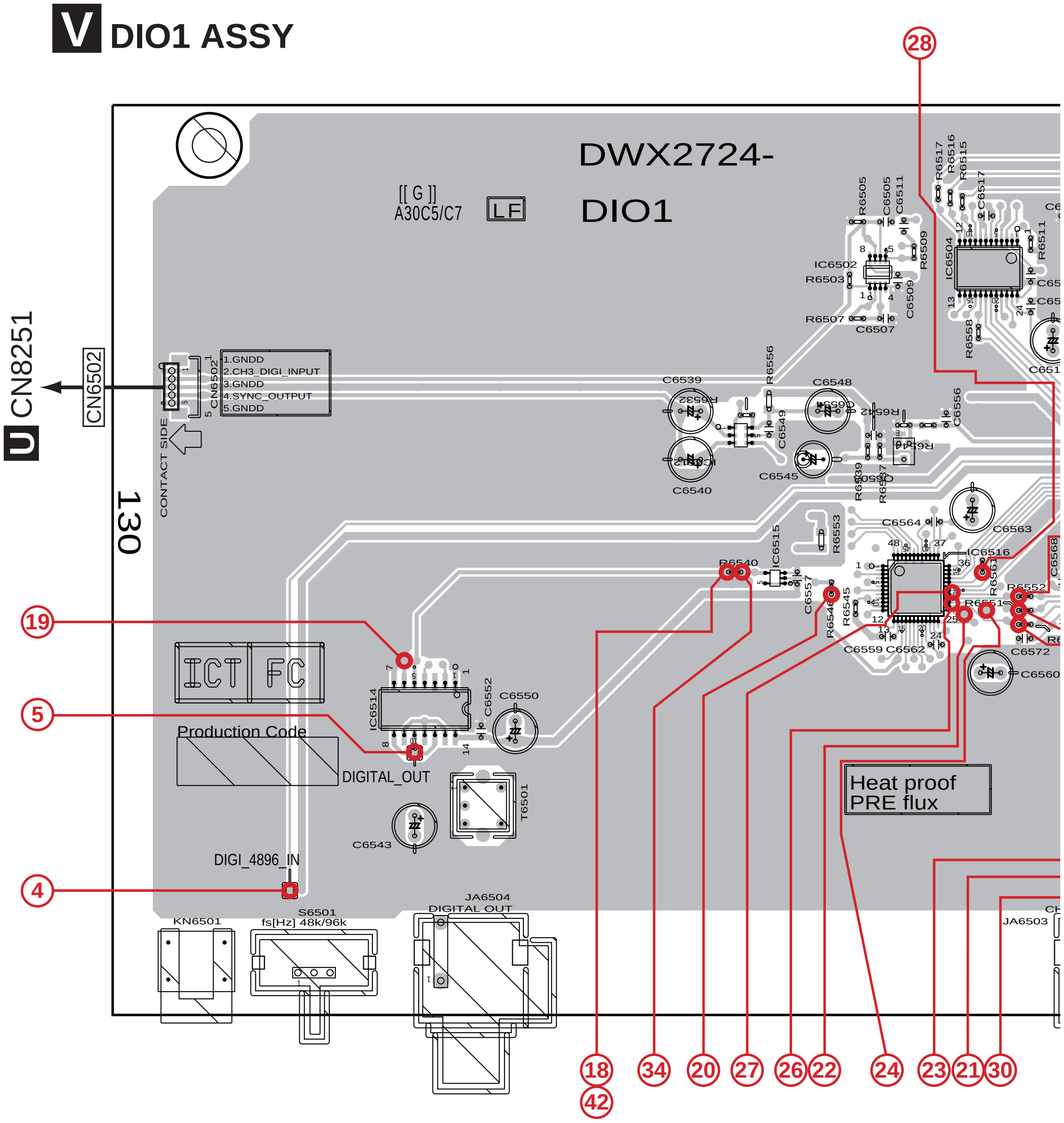
IC6505 IC6512 Q6503

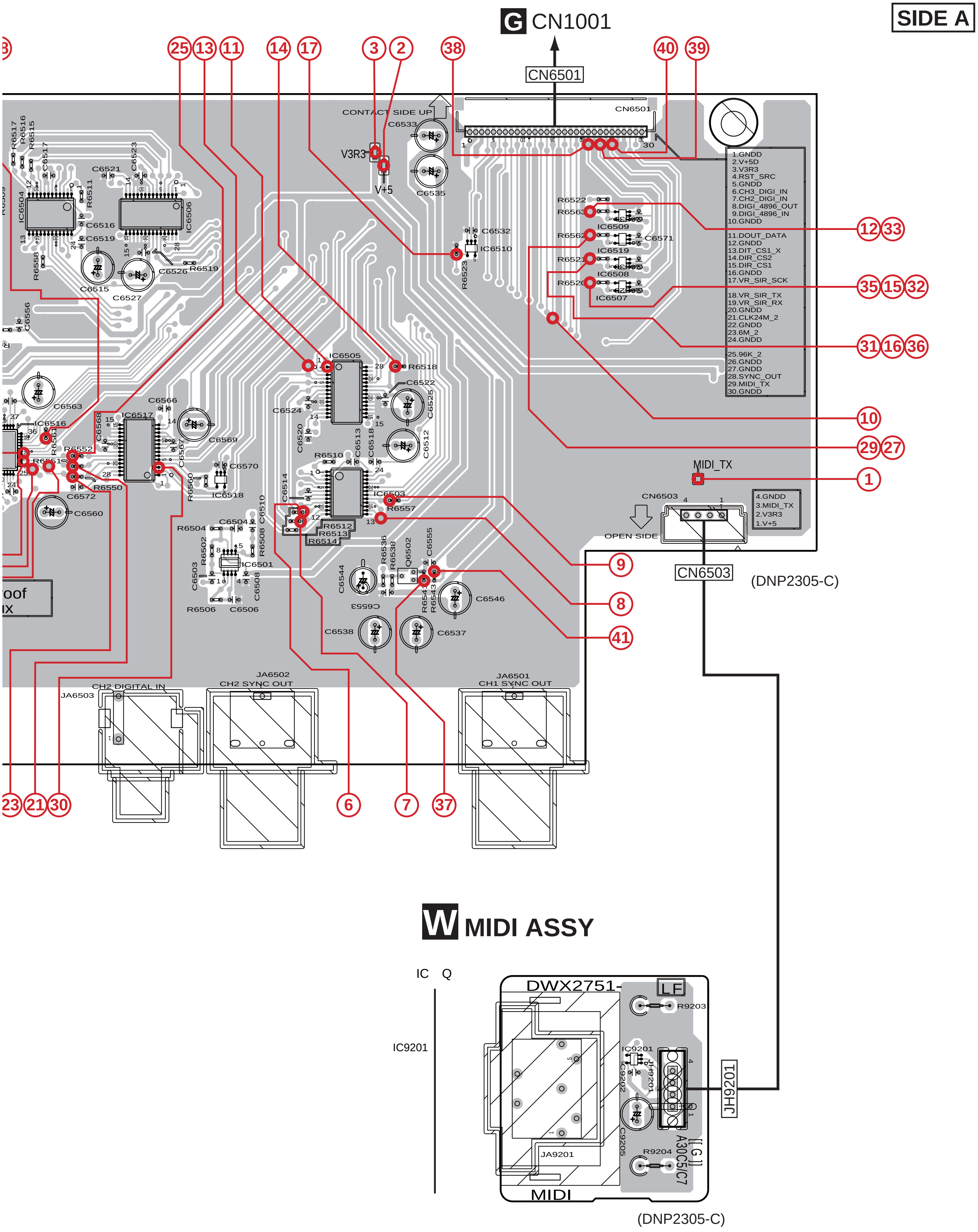
IC6517
IC6516
IC6515

IC6518 IC6503

IC6514
IC6501 Q6502

V DIO1 ASSY


U CN8251
CN6502
130
DWX2724-
DIO1
[[G]]
A30C5/C7
LF
CONTACT SIDE
CN6502
1.GNDD
2.CH3_DIGI_INPUT
3.GNDD
4.SYNC_OUTPUT
5.GNDD
ICT
FC
Production Code
DIGITAL_OUT
DIGI_4896_IN
Heat proof
PRE flux
IC6502
IC6504
IC6514
IC6515
IC6516
R6503
R6505
R6507
R6509
R6511
R6515
R6516
R6517
R6532
R6540
R6541
R6542
R6545
R6549
R6551
R6552
R6553
R6556
R6558
R6561
C6505
C6507
C6509
C6511
C6517
C6539
C6540
C6543
C6545
C6548
C6549
C6550
C6552
C6556
C6557
C6559
C6560
C6562
C6563
C6564
C6568
C6572
T6501
KN6501
S6501
fs[Hz] 48k/96k
JA6504
DIGITAL OUT
JA6503
28
19
5
4
18
42
34
20
27
26
22
24
23
21
30


SIDE A
G CN1001
CN6501
CONTACT SIDE UP
V3R3
V+5
MIDI_TX
CN6503
OPEN SIDE
(DNP2305-C)
1.GNDD
2.V+5D
3.V3R3
4.RST_SRC
5.GNDD
6.CH3_DIGI_IN
7.CH2_DIGI_IN
8.DIGI_4896_OUT
9.DIGI_4896_IN
10.GNDD
11.DOUT_DATA
12.GNDD
13.DIT_CS1_X
14.DIR_CS2
15.DIR_CS1
16.GNDD
17.VR_SIR_SCK
18.VR_SIR_TX
19.VR_SIR_RX
20.GNDD
21.CLK24M_2
22.GNDD
23.6M_2
24.GNDD
25.96K_2
26.GNDD
27.GNDD
28.SYNC_OUT
29.MIDI_TX
30.GNDD
4.GNDD
3.MIDI_TX
2.V3R3
1.V+5
IC6505
IC6517
IC6516
IC6518
IC6501
IC6503
IC6504
IC6506
IC6507
IC6508
IC6509
IC6510
IC6519
JA6501 CH1 SYNC OUT
JA6502 CH2 SYNC OUT
JA6503 CH2 DIGITAL IN
25 13 11 14 17 3 2 38 40 39
12 33
35 15 32
31 16 36
10
29 27
1
9
8
41
23 21 30
6
7
37
W MIDI ASSY
IC Q
IC9201
DWX2751-
LF
R9203
C9202
JH9201
C9205
R9204
JA9201
MIDI
A30C5/C7
(DNP2305-C)

NOTE: The encircled numbers denote measuring point.

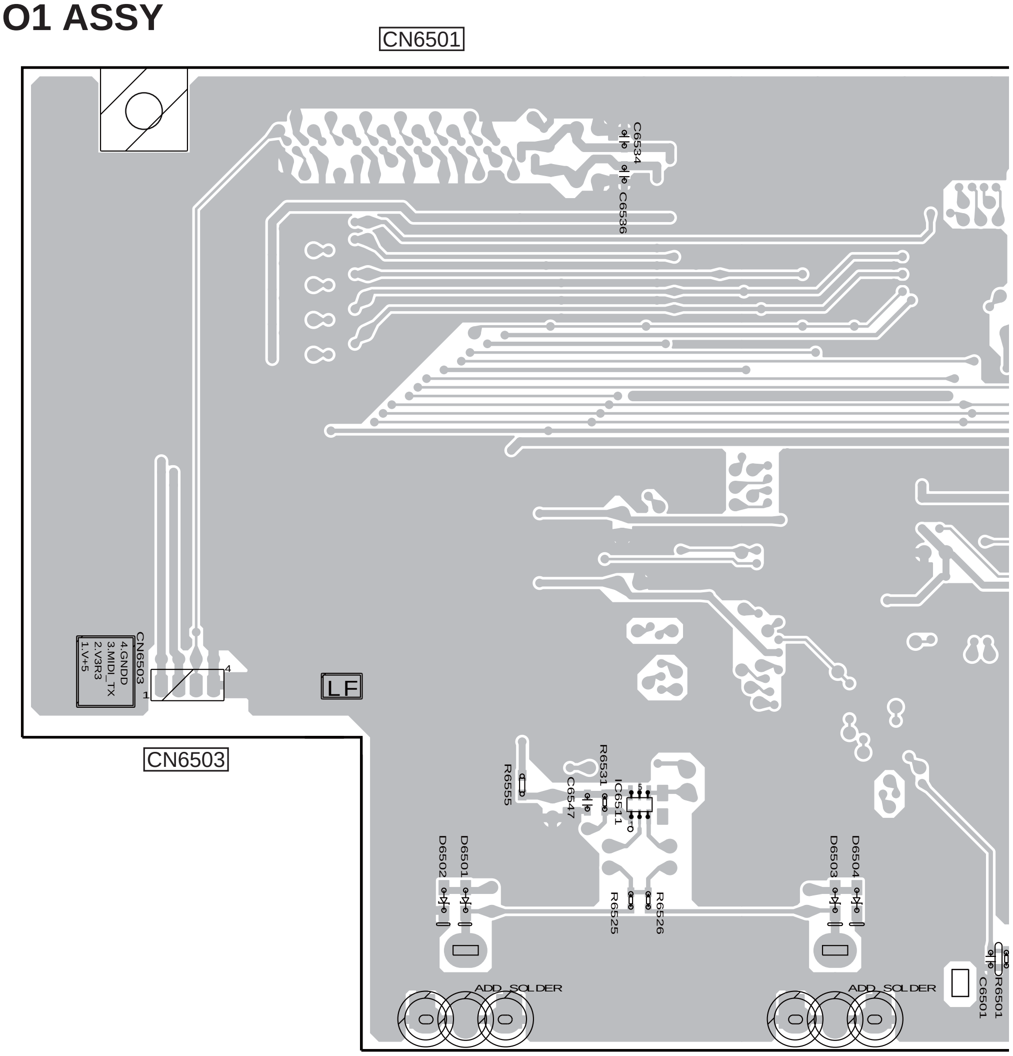
V W

SIDE B

V DIO1 ASSY

IC Q

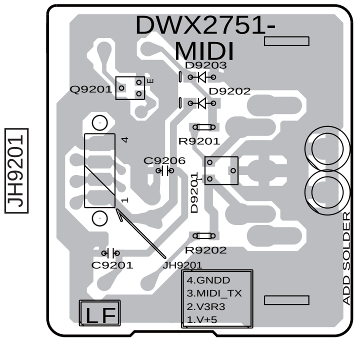
IC6511


CN6501
C6534
C6536
CN6503
4.GNDD
3.MIDI_TX
2.V3R3
1.V+5
1
4
LF
CN6503
R6555
R6531
C6547
IC6511
D6502
D6501
R6525
R6526
D6503
D6504
ADD SOLDER
ADD SOLDER
R6501
C6501

W MIDI ASSY

IC Q

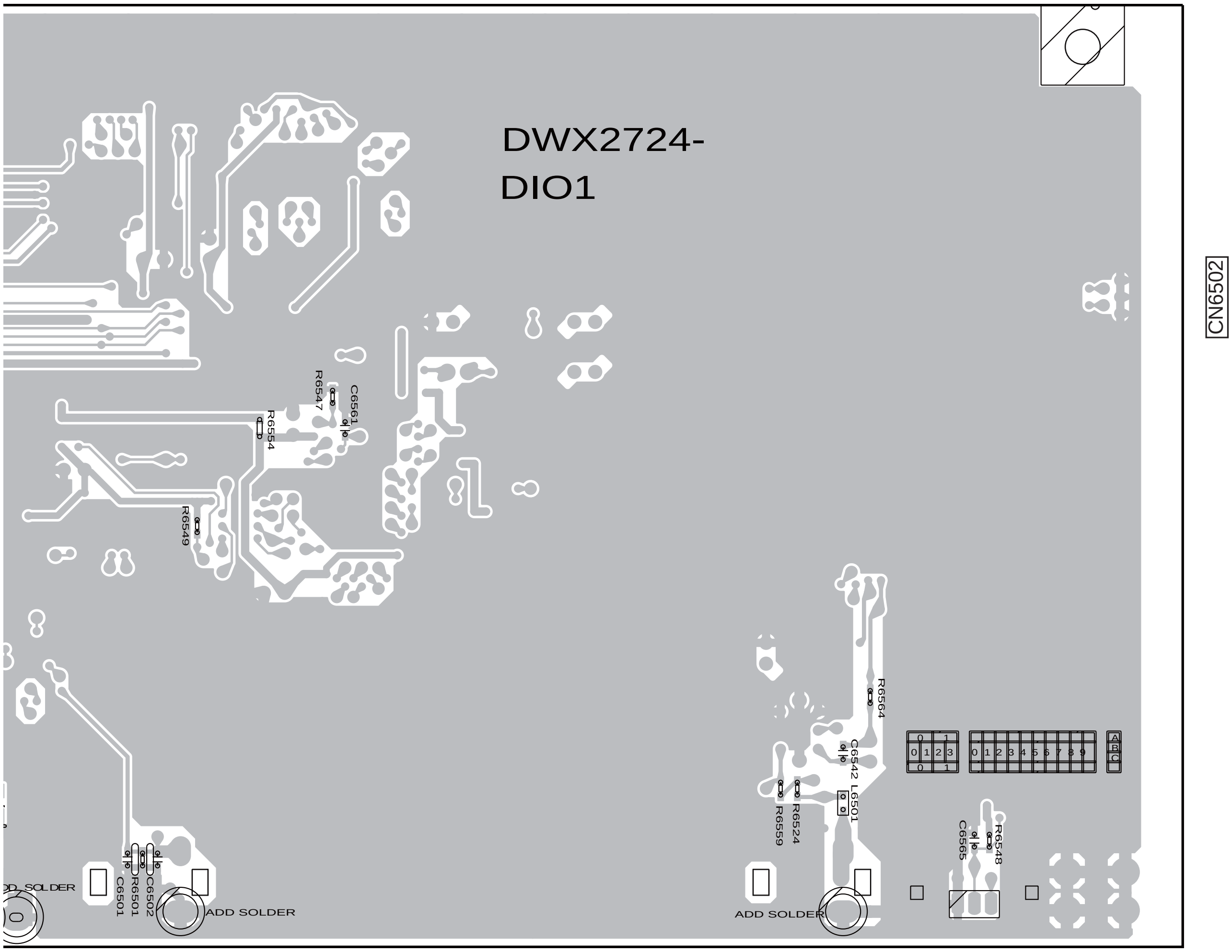
Q9201


DWX2751-
MIDI
D9203
Q9201
E
D9202
R9201
JH9201
4
C9206
D9201
1
R9202
C9201
JH9201
4.GNDD
3.MIDI_TX
2.V3R3
1.V+5
LF
ADD SOLDER

(DNP2305-C)

SIDE B

A


DWX2724-
DIO1
CN6502
R6547
C6561
R6554
R6549
R6564
C6542
L6501
R6524
R6559
C6565
R6548
C6501
R6501
C6502
ADD SOLDER
ADD SOLDER
ADD SOLDER
0 1 2 3
0 1 2 3 4 5 6 7 8 9
A B C

B

C

D

(DNP2305-C)

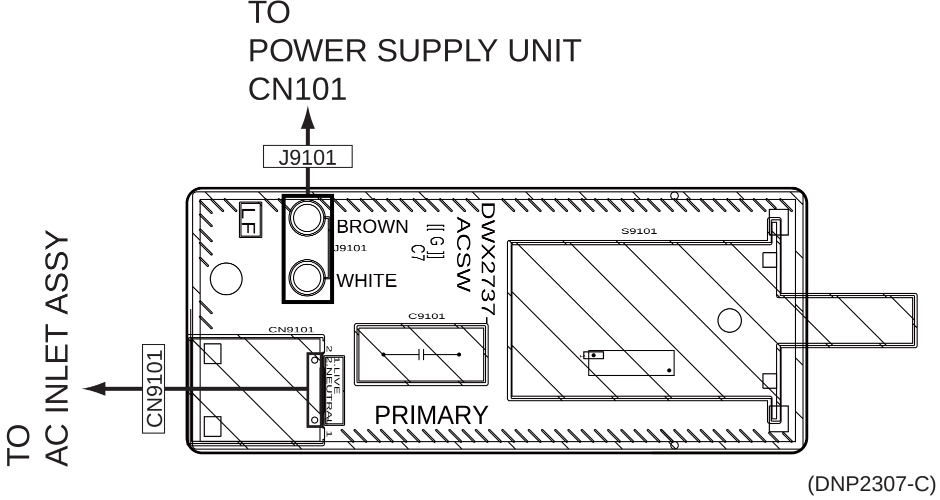
E

F

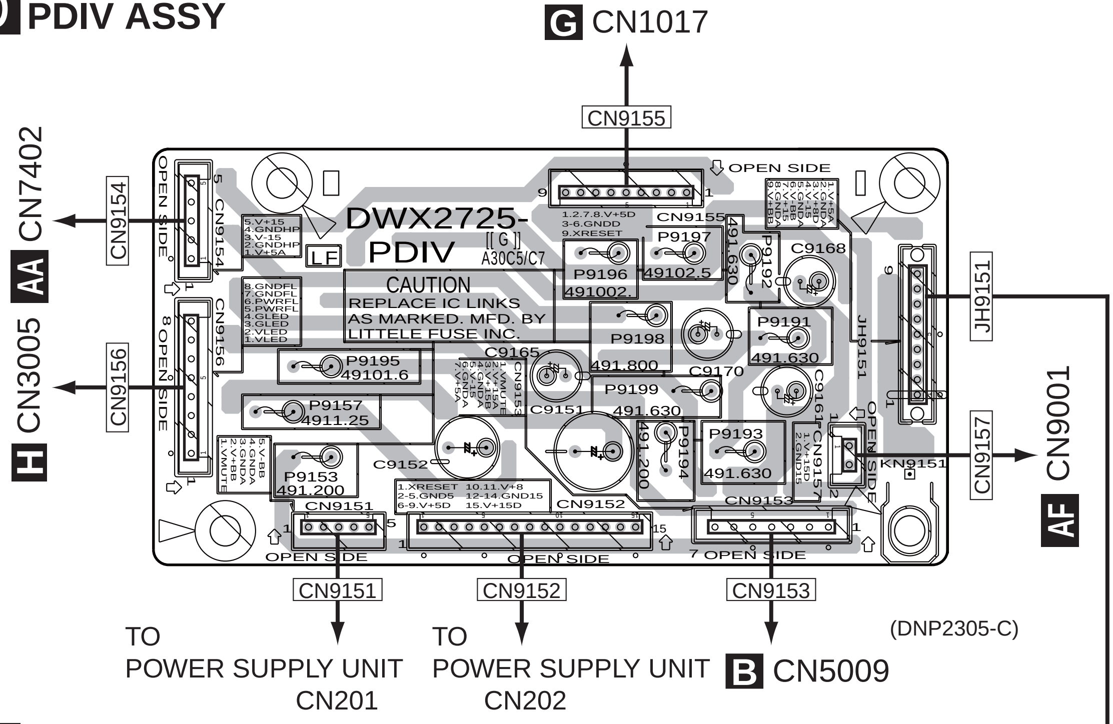
11.11 ACSW, PDIV and REG ASSYS

SIDE A **SIDE A**

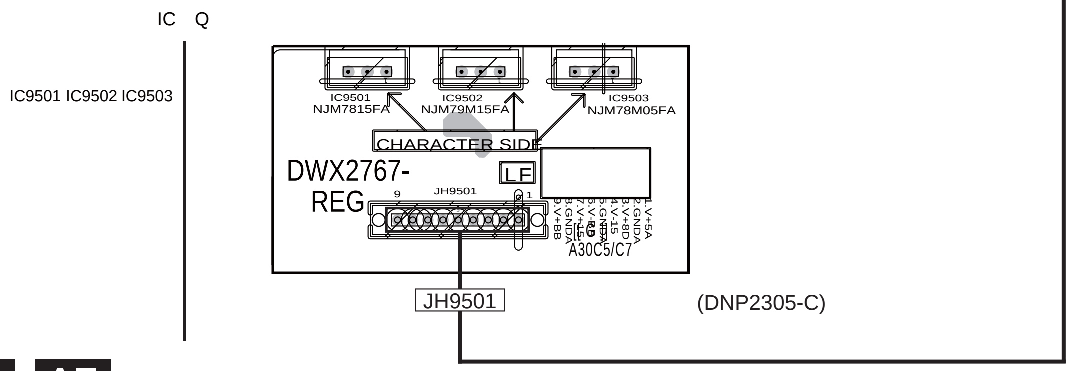
AC ACSW ASSY


TO
POWER SUPPLY UNIT
CN101
J9101
BROWN
WHITE
DWX2737-
ACSW
[[G]]
C7
S9101
C9101
CN9101
1.LIVE
2.NEUTRAL
PRIMARY
TO
AC INLET ASSY
(DNP2307-C)

AD PDIV ASSY

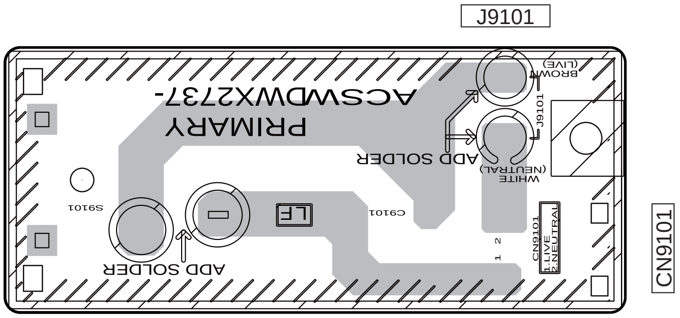

G CN1017
CN9155
OPEN SIDE
DWX2725-
PDIV
[[G]]
A30C5/C7
CAUTION
REPLACE IC LINKS
AS MARKED. MFD. BY
LITTELE FUSE INC.
1.2.7.8.V+5D
3-6.GNDD
9.XRESET
P9197
49102.5
P9196
491002.
P9198
491.800
P9199
491.630
P9191
491.630
P9192
491.630
P9193
491.630
P9194
491.200
P9195
49101.6
P9157
4911.25
P9153
491.200
C9165
C9168
C9170
C9151
C9152
C9161
CN9154
5.V+15
4.GNDHP
3.V-15
2.GNDHP
1.V+5A
CN9156
8.GNDFL
7.GNDFL
6.PWRFL
5.PWRFL
4.GLED
3.GLED
2.VLED
1.VLED
5.V-BB
4.GNDA
3.GNDA
2.V+BB
1.VMUTE
CN9153
1.VMUTE
2.V+15
3.V+15A
4.GNDA
5.GNDA
6.V+BB
7.V+5A
1.V+5A
2.GNDA
3.V+8D
4.V-15
5.GNDA
6.V-BB
7.V+15
8.GNDA
9.V+BB
JH9151
CN9157
1.V+15D
2.GND15
KN9151
CN9151
CN9152
1.XRESET 10.11.V+8
2-5.GND5 12-14.GND15
6-9.V+5D 15.V+15D
TO CN7402
AA
TO CN3005
H
JH9151
CN9157
CN9001
AF
CN9151
CN9152
CN9153
TO
POWER SUPPLY UNIT
CN201
TO
POWER SUPPLY UNIT
CN202
B CN5009
(DNP2305-C)

AE REG ASSY


IC Q
IC9501 IC9502 IC9503
IC9501
NJM7815FA
IC9502
NJM79M15FA
IC9503
NJM78M05FA
CHARACTER SIDE
DWX2767-
REG
LF
JH9501
1.V+5A
2.GNDA
3.V+8D
4.V-15
5.GNDA
6.V-BB
7.V+15
8.GNDA
9.V+BB
A30C5/C7
JH9501
(DNP2305-C)

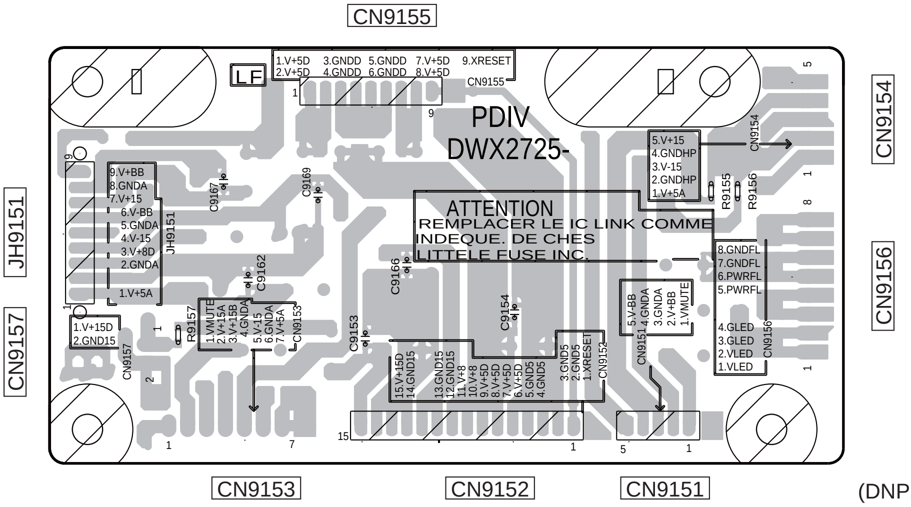
SIDE B **SIDE B**

AC ACSW ASSY


J9101
ACSWDWX2737-
PRIMARY
ADD SOLDER
BROWN (LIVE)
WHITE (NEUTRAL)
J9101
ADD SOLDER
S9101
C9101
LF
CN9101
1.LIVE
2.NEUTRAL
1 2
CN9101

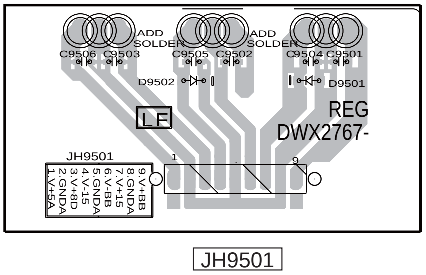
(DNP2307-C)

AD PDIV ASSY


CN9155
1.V+5D 2.V+5D 3.GNDD 4.GNDD 5.GNDD 6.GNDD 7.V+5D 8.V+5D 9.XRESET
CN9155
LF
PDIV
DWX2725-
CN9154
5.V+15
4.GNDHP
3.V-15
2.GNDHP
1.V+5A
R9155
R9156
ATTENTION
REMPLACER LE IC LINK COMME
INDEQUE. DE CHES
LITTELE FUSE INC.
JH9151
9.V+BB
8.GNDA
7.V+15
6.V-BB
5.GNDA
4.V-15
3.V+8D
2.GNDA
1.V+5A
JH9151
C9167
C9169
C9162
C9166
C9154
C9153
CN9157
1.V+15D
2.GND15
CN9157
R9157
1.VMUTE 2.V+15A 3.V+15B 4.GNDA 5.V-15 6.GNDA 7.V+5A
CN9153
15.V+15D 14.GND15 13.GND15 12.GND15 11.V+8 10.V+8 9.V+5D 8.V+5D 7.V+5D 6.V+5D 5.GND5 4.GND5 3.GND5 2.GND5 1.XRESET
CN9152
CN9151
5.V-BB 4.GNDA 3.GNDA 2.V+BB 1.VMUTE
CN9156
8.GNDFL 7.GNDFL 6.PWRFL 5.PWRFL 4.GLED 3.GLED 2.VLED 1.VLED
CN9156
CN9153
CN9152
CN9151

(DNP2305-C)

AE REG ASSY


ADD SOLDER
ADD SOLDER
C9506 C9503 C9505 C9502 C9504 C9501
D9502
D9501
LF
REG
DWX2767-
JH9501
9.V+BB 8.GNDA 7.V+15 6.V-BB 5.GNDA 4.V-15 3.V+8D 2.GNDA 1.V+5A
JH9501

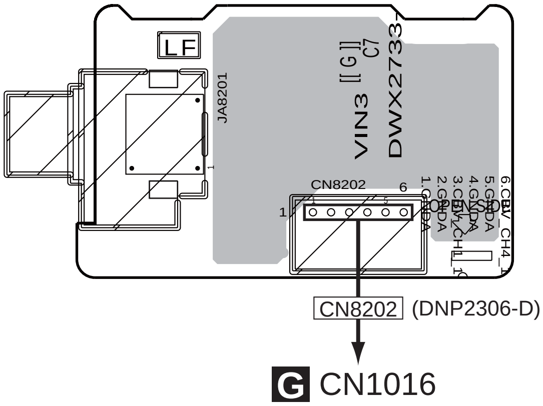
(DNP2305-C)

AC AD AE

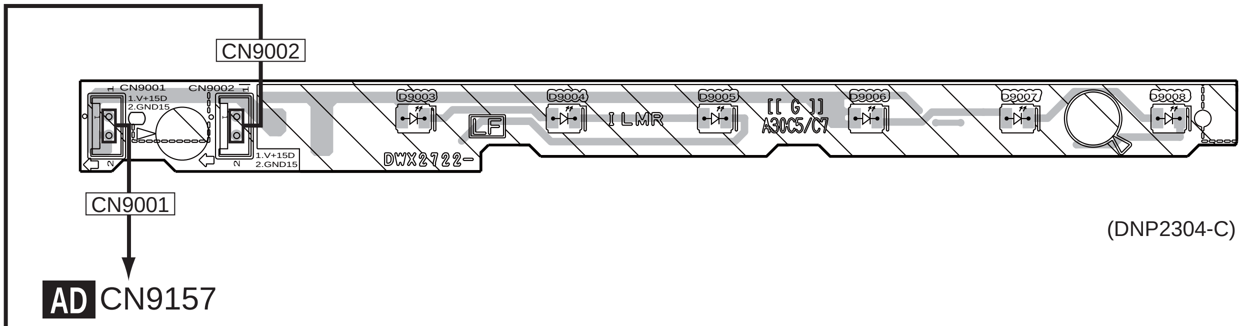
11.12 VIN3, ILMR and ILML ASSYS

SIDE A **SIDE A**

E VIN3 ASSY


LF
JA8201
VIN3 [[G]] C7
DWX2733-
CN8202
1
6
1.GNDA
2.GNDA
3.CBV_CH1_1
4.GNDA
5.GNDA
6.CBV_CH4_1
OPEN SIDE
CN8202 (DNP2306-D)
G CN1016

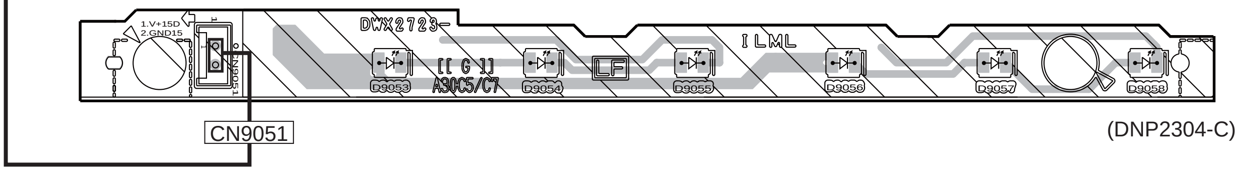
AF ILMR ASSY


CN9002
CN9001
1.V+15D
2.GND15
CN9002
1.V+15D
2.GND15
D9003
LF
D9004
ILMR
D9005
[[G]]
A30C5/C7
D9006
D9007
D9008
DWX2722-
CN9001
AD CN9157

(DNP2304-C)

IC

AG ILML ASSY

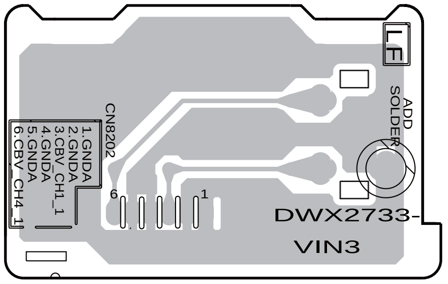

1.V+15D
2.GND15
CN9051
DWX2723-
ILML
D9053
[[G]]
A30C5/C7
D9054
LF
D9055
D9056
D9057
D9058
CN9051

(DNP2304-C)

IC

E AF AG

E VIN3 ASSY

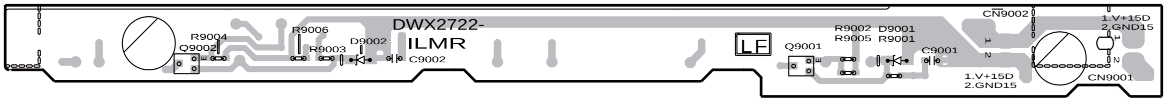

LF
ADD SOLDER
CN8202
1.GNDA
2.GNDA
3.CBV_CH1_1
4.GNDA
5.GNDA
6.CBV_CH4_1
6
1
DWX2733-
VIN3

CN8202 (DNP2306-D)

AF ILMR ASSY

IC Q

Q9002 Q9001


R9004
Q9002
R9006
R9003
D9002
C9002
DWX2722-
ILMR
LF
Q9001
R9002
R9005
D9001
R9001
C9001
CN9002
1
2
1.V+15D
2.GND15
1.V+15D
2.GND15
1
2
CN9001

CN9002

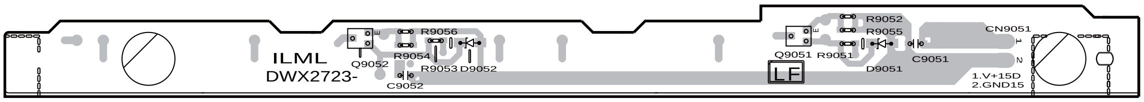
CN9001

(DNP2304-C)

AG ILML ASSY

IC Q

Q9051
Q9052

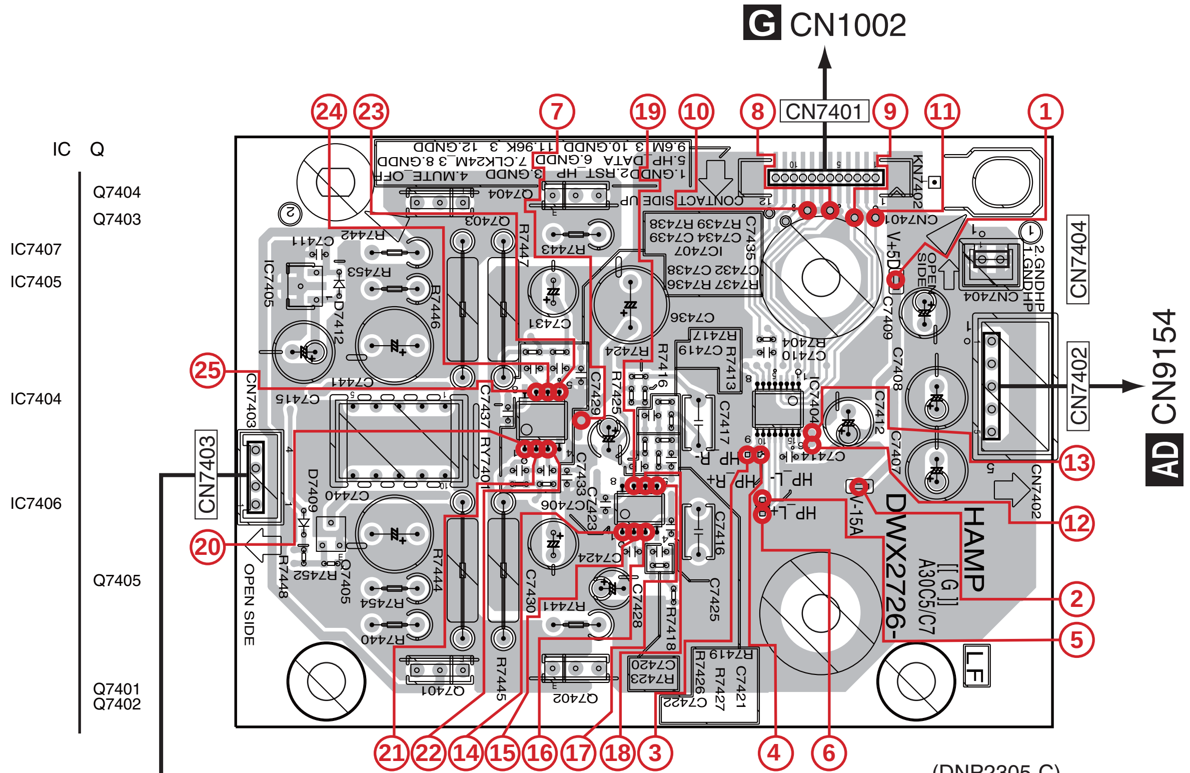

ILML
DWX2723-
Q9052
R9056
R9054
R9053
D9052
C9052
R9052
R9055
Q9051
R9051
D9051
LF
C9051
CN9051
1
2
1.V+15D
2.GND15

CN9051 (DNP2304-C)

11.13 HAMP and HJCK ASSYS

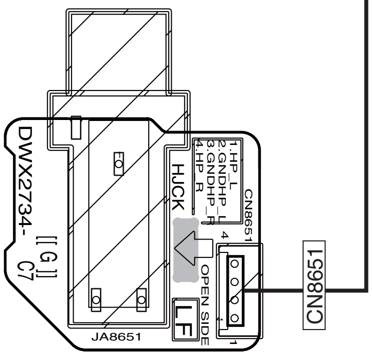
SIDE A **SIDE A**

AA HAMP ASSY


G CN1002
CN7401
24
23
7
19
10
8
9
11
1
IC Q
Q7404
Q7403
IC7407
IC7405
IC7404
IC7406
Q7405
Q7401
Q7402
1.GNDD 2.RST_HP 3.GNDD 4.MUTE_OFF 5.HP_DATA 6.GNDD 7.CLK24M_3 8.GNDD 9.6M_3 10.GNDD 11.96K_3 12.GNDD
CONTACT SIDE UP
KN7402
CN7404
1.GNDHP 2.GNDHP
AD CN9154
CN7402
CN7403
25
20
13
12
2
5
OPEN SIDE
V+5D
V-15A
HP_R-
HP_R+
HP_L-
HP_L+
DWX2726-
HAMP
[[G]]
A30C5/C7
LF
21
22
14
15
16
17
18
3
4
6

(DNP2305-C)

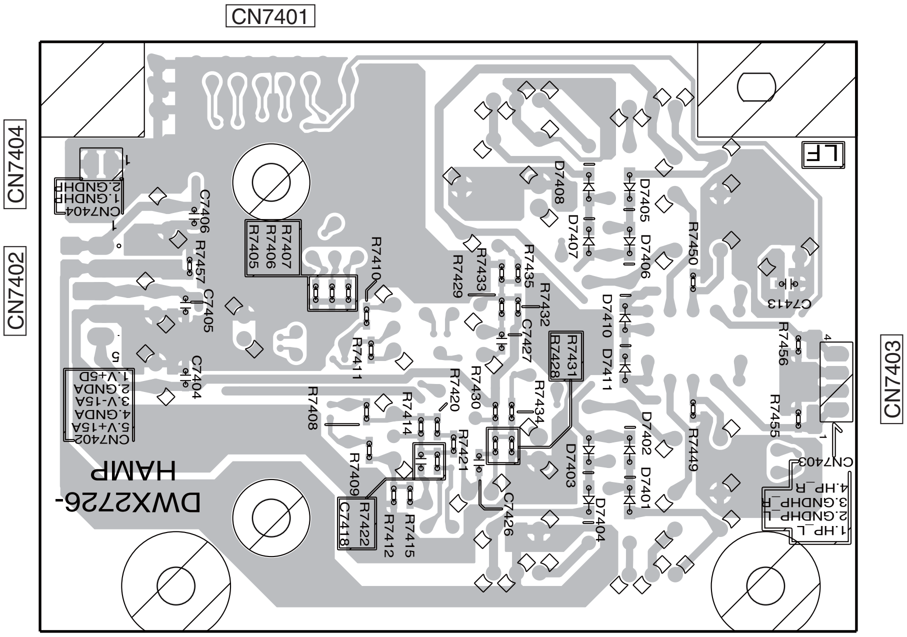
AB HJCK ASSY


DWX2734-
[[G]]
C7
HJCK
CN8651
1.HP_L
2.GNDHP_L
3.GNDHP_R
4.HP_R
OPEN SIDE
JA8651
LF
CN8651

(DNP2306-D)

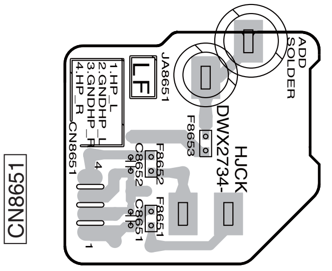
SIDE B **SIDE B**

AA HAMP ASSY


CN7401
CN7404
CN7402
CN7403
DWX2726-
HAMP
LF
1.GNDHP
2.GNDHP
1.V+5D
2.GNDA
3.V-15A
4.GNDA
5.V+15A
1.HP_L
2.GNDHP_L
3.GNDHP_R
4.HP_R
C7404
C7405
C7406
C7413
C7418
C7426
C7427
R7405
R7406
R7407
R7408
R7409
R7410
R7411
R7412
R7414
R7415
R7420
R7421
R7422
R7428
R7429
R7430
R7431
R7432
R7433
R7434
R7435
R7449
R7450
R7455
R7456
R7457
D7401
D7402
D7403
D7404
D7405
D7406
D7407
D7408
D7410
D7411

(DNP2305-C)

AB HJCK ASSY


CN8651
HJCK
DWX2734-
LF
JA8651
ADD SOLDER
1.HP_L
2.GNDHP_L
3.GNDHP_R
4.HP_R
F8651
F8652
F8653
C8651
C8652
1
4

(DNP2306-D)

NOTE: The encircled numbers denote measuring point.

12. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω → 56 x 10^{1} → 561 ································ RD1/4PU$\boxed{5}\boxed{6}\boxed{1}$J
47k Ω → 47 x 10^{3} → 473 ································ RD1/4PU$\boxed{4}\boxed{7}\boxed{3}$J
0.5 Ω → R50 ································ RN2H$\boxed{R}\boxed{5}\boxed{0}$K
1 Ω → 1R0 ································ RS1P$\boxed{1}\boxed{R}\boxed{0}$K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 x 10^{1} → 5621 ································ RN1/4PC$\boxed{5}\boxed{6}\boxed{2}\boxed{1}$F

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1..	MAIN ASSY	DWX2715
NSP	1..	SCIV ASSY	DWM2302
	2..	SCPU ASSY	DWX2716
	2..	INVT ASSY	DWX2717
NSP	1..	AUDI ASSY	DWM2303
	2..	AUD1 ASSY	DWX2718
	2..	DIO2 ASSY	DWX2719
	2..	USB1 ASSY	DWX2727
NSP	1..	AUIL ASSY	DWM2304
	2..	AUD2 ASSY	DWX2721
	2..	ILMR ASSY	DWX2722
	2..	ILML ASSY	DWX2723
NSP	1..	DIHP ASSY	DWM2305
	2..	USB2 ASSY	DWX2720
	2..	DIO1 ASSY	DWX2724
	2..	PDIV ASSY	DWX2725
	2..	HAMP ASSY	DWX2726
	2..	SDIO ASSY	DWX2728
	2..	MIDI ASSY	DWX2751
	2..	REG ASSY	DWX2767
NSP	1..	CTVI ASSY	DWM2306
	2..	CTL1 ASSY	DWX2729
	2..	CTL3R ASSY	DWX2730
	2..	VIO1 ASSY	DWX2731
	2..	VIO2 ASSY	DWX2732
	2..	VIN3 ASSY	DWX2733
	2..	HJCK ASSY	DWX2734
NSP	1..	CTFD ASSY	DWM2307
	2..	CTL2A ASSY	DWX2735
	2..	CTL2B ASSY	DWX2736
⚠	2..	ACSW ASSY	DWX2737
	2..	MJCK ASSY	DWX2738
	2..	CRFD ASSY	DWX2739
	2..	CFD1 ASSY	DWX2740
	2..	CFD2 ASSY	DWX2741
	2..	CFD3 ASSY	DWX2742
	2..	CFD4 ASSY	DWX2743
	2..	CTL3LA ASSY	DWX2744
	2..	CTL3LB ASSY	DWX2745
⚠	1..	Power Supply Unit	DWR1440

A AUD1 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 4001,4004,4011,4013		NJM4580MD
	IC 4002,4005,4007,4018		TC7SET08FUS1
⚠	IC 4003,4020,4035		LTC1590CS
	IC 4006,4008,4010		TC7SH08FUS1
	IC 4009		AK5381VT
	IC 4012,4045,4046		NE5532AD
	IC 4014,4016,4026-4029		NJM4580MD
⚠	IC 4015,4030,4057,4058		LM4040EIM3-2.5
⚠	IC 4017,4032		CS5361-KS
	IC 4019,4022,4033,4034		TC7SET08FUS1
	IC 4021,4036		OPA2134UA
	IC 4023-4025,4038-4040		TC7SH08FUS1
	IC 4031		NJM4580MD
	IC 4037,4041-4043,4049		TC7SET08FUS1
	IC 4044		AK4382AVT
	IC 4047,4048		NJM5532DD
	IC 4050-4055		TC7SH08FUS1
	IC 4056		TC7SET08FUS1
	Q 4001-4004,4014		2SC4081
	Q 4005-4008		2SK371D1
	Q 4009-4013		DTC124EUA
	Q 4015-4022		2SC3326
	D 4001-4010,4012,4013		1SS355
	D 4011,4018		UDZS5R6(B)
	D 4014-4017,4021-4024		RB706D-40
	D 4019,4020		1SS355

MISCELLANEOUS

Mark	No.	Description	Part No.
	F 4001-4005	FERRITE CORE	VTF1093
	JA 4001,4007,4008	HEADPHONE JACK	DKN1281
	JA 4003,4005	JACK	VKB1133
	JA 4004,4006	JACK	RKN1004
	KN 4001,4002	WRAPPING TERMINAL	VNF1084
	RY 4001,4002	RELAY	VSR1008
	CN 4002	CONNECTOR POST	B3B-PH-K-S
	CN 4010	17P CONNECTOR	DKN1511
	CN 4011	34P CONNECTOR	DKN1512
	CN 4014	CONNECTOR POST	S8B-EH
	CN 4015,4016	19P CONNECTOR	19R-1.25FJ

Mark	No.	Description	Part No.

RESISTORS

Mark	No.	Description	Part No.
	R 4001-4004,4026,4027		RN1/16SE1000D
	R 4009,4012,4013,4016		RN1/16SE1501D
	R 4010,4011,4014,4015		RN1/16SE4701D
	R 4017,4018		RN1/16SE3300D
	R 4019-4022,4189-4196		RN1/16SE3901D
	R 4036,4037,4118-4121		RN1/16SE1001D
	R 4042,4045,4048,4051		RN1/16SE8200D
	R 4043,4044,4049,4050		RN1/16SE3301D
	R 4046,4047,4124-4127		RN1/16SE1102D
	R 4052,4053,4128-4131		RN1/16SE1502D
	R 4056,4057		RSK1/16S510J
	R 4060,4061		RSK1/16S273J
	R 4062,4063		RSK1/16S222J
	R 4070-4077,4086-4089		RN1/16SE3301D
	R 4078-4081,4146-4149		RN1/16SE2401D
	R 4090,4091,4158,4159		RN1/16SE3002D
	R 4092,4095,4096,4099		RN1/16SE1201D
	R 4093,4094,4097,4098		RN1/16SE3601D
	R 4101,4102,4169,4170		RN1/16SE2002D
	R 4103,4104,4171,4172		RN1/16SE1303D
	R 4138-4145,4154-4157		RN1/16SE3301D
	R 4160,4163,4164,4167		RN1/16SE1201D
	R 4161,4162,4165,4166		RN1/16SE3601D
	R 4197-4200,4209-4213		RN1/16SE2202D
	R 4201-4208		RN1/16SE3301D
	R 4214,4215,4217,4218		RN1/16SE3001D
	R 4216,4219,4222		RN1/16SE2202D
	R 4220,4221,4223,4224		RN1/16SE3001D
	R 4225-4228		RN1/16SE2202D
	R 4233-4240		RN1/16SE8201D
	R 4241-4256		RN1/16SE1002D
	R 4257-4260		RN1/16SE2700D
	R 4273,4275,4277,4279		RN1/16SC68R0D
	R 4281-4284		RD1/2VM101J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 4001,4049-4052		CCSRCH221J50
	C 4002,4055,4058,4150		CFTLA103J50
	C 4003,4004,4009-4012		CCSRCH102J50
	C 4005-4008,4036,4037		CCH1559
	C 4013,4014		CKSRYB472K50
	C 4015-4018,4099-4102		CCSRCH101J50
	C 4019,4020,4065,4066		CCSRCH331J50
	C 4021,4024,4074,4078		CEHAZL101M25
	C 4022,4023,4025,4032		CKSRYB103K50
	C 4026,4031,4034,4071		CEHAZL100M50
	C 4027,4028,4035,4038		CKSRYB104K16
	C 4029,4030,4136,4137		CCSRCH330J50
	C 4033,4047,4072,4073		CKSRYB103K50
	C 4039,4124,4207		CEHAZL221M10
	C 4040,4042,4043,4045		CKSRYB104K16
	C 4041,4044,4119,4121		CEHAZL101M10
	C 4046,4048,4120,4125		CKSRYB104K16
	C 4053,4054		CCSRCH181J50
	C 4059,4060		CCSRCH471J50
	C 4063,4064		CQMA223J50
	C 4067,4068		CEHAZL471M16
	C 4069,4070		CQMA124J50
	C 4075,4077,4092,4093		CKSRYB103K50
	C 4076,4113,4116,4128		CEHAZL100M50
	C 4079,4082		CQMA333J50
	C 4080,4081		CQMA222J50
	C 4083,4085,4087,4089		CCH1559
	C 4091,4094,4096,4098		CEHAZL101M25
	C 4095,4097,4107,4108		CKSRYB103K50
	C 4103-4106,4109,4110		CFTNA334J50
	C 4111,4112,4182-4185		CCSRCH101J50
	C 4114,4115,4127,4132		CKSRYB103K50
	C 4122,4123,4205,4206		CKSRYB272K50
	C 4126,4129-4131,4134		CKSRYB104K16
	C 4133,4202,4204,4216		CEHAZL101M10
	C 4135,4142-4145,4203		CKSRYB104K16
	C 4138,4141,4158,4161		CEHAZL100M50
	C 4139,4140,4159,4160		CKSRYB103K50
	C 4146-4149		CCSRCH221J50
	C 4155		CFTLA103J50
	C 4162,4163,4175,4176		CKSRYB103K50
	C 4164,4165,4196,4199		CEHAZL100M50
	C 4166,4168,4170,4172		CCH1559
	C 4174,4177,4179,4181		CEHAZL101M25
	C 4178,4180,4190,4191		CKSRYB103K50
	C 4186-4189,4192,4193		CFTNA334J50
	C 4194,4195		CCSRCH101J50
	C 4197,4198,4210,4215		CKSRYB103K50
	C 4200,4201,4319,4320		CCH1354
	C 4208,4209,4212-4214		CKSRYB104K16
	C 4211,4221,4224		CEHAZL100M50
	C 4217,4218,4225-4231		CKSRYB104K16
	C 4219,4220		CCSRCH330J50
	C 4222,4223,4232		CKSRYB103K50
	C 4233,4291-4297		CKSRYB104K16
	C 4234,4298,4299		CEHAZL101M10
	C 4235-4238		CCSQCH332J50
	C 4239-4242		CCSRCH122J50
	C 4243-4250		CCSRCH121J50
	C 4251-4254,4263-4266		CKSRYB103K50
	C 4256,4258,4260,4262		CCH1559
	C 4267-4274		CCSRCH151J50
	C 4275-4278		CEHAZL470M25
	C 4287-4290		CQMA103J50
	C 4300,4305,4306		CEHAZL101M25
	C 4301-4303,4310		CKSRYB104K16
	C 4308,4309		CKSRYB103K50
	C 4311-4316		CEHAZL100M50
	C 4317,4318		CCH1559
	C 4321-4324		CQMA682J50

B AUD2 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 5001-5003,5024-5029		TC7SH08FUS1
	IC 5004		AK4393VF
	IC 5005-5007,5016-5018		TC7SET08FUS1
	IC 5008,5009,5021		NJM4580MD
⚠	IC 5010,5011,5041,5056		LTC1590CS
	IC 5012,5013,5042,5057		OPA2134UA
	IC 5014,5015		NJM2114D

Mark	No.	Description	Part No.
	IC 5019		AK4382AVT
	IC 5020,5048		NE5532AD
	IC 5023,5039,5040,5043		TC7SET08FUS1
⚠	IC 5030		TA78L12F
⚠	IC 5031		BA033FP
	IC 5032-5035,5037,5047		NJM4580MD
⚠	IC 5036,5051,5065,5066		LM4040EIM3-2.5
⚠	IC 5038,5053		CS5361-KS
	IC 5044-5046,5059-5061		TC7SH08FUS1
	IC 5049,5050,5052		NJM4580MD
	IC 5054,5055,5058,5062		TC7SET08FUS1
	IC 5063		TC7SET08FUS1
	IC 5064		TC7SH08FUS1
	Q 5002,5016,5017		DTC124EUA
	Q 5003,5005		2SA1576A
	Q 5004,5006-5013		2SC3326
	Q 5014,5015		2SC2412K
	Q 5018		2SC4081
	Q 5019-5022		2SK371D1
	Q 5023-5025		DTC124EUA
	D 5001-5012,5014,5015		1SS355
	D 5013,5020		UDZS5R6(B)
	D 5016-5019,5023-5026		RB706D-40
	D 5021,5022,5027,5028		1SS355

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 5005-5008	FERRITE CORE	VTF1093
	JA 5001,5002	CANON CONNECTOR	DKB1077
	JA 5003,5012,5014	JACK	VKB1133
	JA 5013,5015	JACK	RKN1004
	KN 5008,5010	WRAPPING TERMINAL	VNF1084
	RY 5001-5004	RELAY	VSR1008
	S 5001	SLIDE SWITCH	DSH1063
	CN 5004,5005	19P CONNECTOR	VKN1775
	CN 5006	CONNECTOR POST	S8B-EH

RESISTORS

Mark	No.	Description	Part No.
	R 5011-5016,5018,5019		RN1/16SE1201D
	R 5020-5023,5032-5036		RN1/16SE1202D
	R 5024-5031,5080,5082		RN1/16SE1101D
	R 5037,5038,5040,5041		RN1/16SE1001D
	R 5039,5042,5045		RN1/16SE1202D
	R 5043,5044,5046,5047		RN1/16SE1001D
	R 5049-5052		RN1/16SE1202D
	R 5060-5067		RN1/16SE3901D
	R 5068-5071		RN1/16SE1002D
	R 5072-5075		RN1/16SE9101D
	R 5076-5079		RD1/2VM181J
	R 5081,5083,5085,5087		RN1/16SE4701D
	R 5084,5086		RN1/16SE1101D
	R 5119-5122		RN1/16SE4701D
	R 5123,5124,5129-5131		RN1/16SE3902D
	R 5125-5128,5218-5225		RN1/16SE3301D
	R 5132,5133,5135,5136		RN1/16SE2401D
	R 5134,5137,5138		RN1/16SE3902D
	R 5139-5142		RN1/16SE1302D
	R 5145,5146,5153,5154		RN1/16SE2002D
	R 5161-5164,5177-5180		RN1/16SE2700D
	R 5169-5172		RN1/16SE4300D
	R 5198-5201,5264,5265		RN1/16SE1001D
	R 5204-5207,5274,5275		RN1/16SE1102D
	R 5208-5211,5280,5281		RN1/16SE1502D
	R 5226-5229,5306-5309		RN1/16SE2401D
	R 5234-5237,5271,5272		RN1/16SE3301D
	R 5238,5239,5318,5319		RN1/16SE3002D
	R 5240,5243,5244,5247		RN1/16SE1201D
	R 5241,5242,5245,5246		RN1/16SE3601D
	R 5249,5250,5329,5330		RN1/16SE2002D
	R 5251,5252,5331,5332		RN1/16SE1303D
	R 5270,5273,5276,5279		RN1/16SE8200D
	R 5277,5278,5298-5305		RN1/16SE3301D
	R 5284,5285		RSK1/16S510J
	R 5288,5289		RSK1/16S273J
	R 5290,5291		RSK1/16S222J
	R 5314-5317		RN1/16SE3301D
	R 5320,5323,5324,5327		RN1/16SE1201D
	R 5321,5322,5325,5326		RN1/16SE3601D
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 5001-5003,5006		CKSRYB104K16
	C 5004,5031,5033,5035		CKSRYB103K50
	C 5005,5047,5048,5057		CEHAZL100M50
	C 5007,5226,5325		CEHAZL221M10
	C 5008-5010,5012,5017		CKSRYB104K16
	C 5011,5102,5221,5223		CEHAZL101M10
	C 5013-5016		CQMA822J50
	C 5018-5021,5106,5107		CCSRCH152J50
	C 5022-5027,5029,5030		CCSRCH151J50
	C 5028,5049,5050		CKSRYB104K16
	C 5032,5034,5036,5038		CEHAZL101M25
	C 5037,5051,5052,5058		CKSRYB103K50
	C 5040,5042,5044,5046		CCH1354
	C 5053-5056,5238,5239		CCSRCH330J50
	C 5059,5062,5064,5177		CEHAZL100M50
	C 5060,5061,5063,5075		CKSRYB103K50
	C 5065-5068,5201-5204		CCSRCH101J50
	C 5069-5074,5078,5079		CCSRCH820J50
	C 5076,5080,5083,5084		CEHAZL101M25
	C 5077,5081,5082,5101		CKSRYB103K50
	C 5089		CEHANP220M25
	C 5090-5093		CQMA221J50
	C 5094-5097,5169,5174		CFTLA103J50
	C 5098-5100,5103		CKSRYB104K16
	C 5104,5105		CCSQCH332J50
	C 5108-5110,5112		CCSRCH560J50
	C 5111,5113,5122,5123		CKSRYB103K50
	C 5115,5117,5128,5129		CCH1559
	C 5119,5121,5124,5125		CCSRCH820J50
	C 5140-5143		CKSRYB221K50
	C 5144-5150,5153,5154		CKSRYB104K16
	C 5151,5152,5159		CEHAS470M16
	C 5155,5160,5161,5163		CKSRYB103K50
	C 5156,5162,5222,5227		CKSRYB104K16
	C 5157,5158,5193,5196		CEHAZL101M25
	C 5164		CEHAZL470M25
	C 5165-5168,5248-5251		CCSRCH221J50
	C 5178,5179,5181,5182		CKSRYB103K50
	C 5180,5183,5184,5215		CEHAZL100M50
	C 5185,5187,5189,5191		CCH1559

Mark	No.	Description	Part No.
C	5194,5195,5197,5199		CKSRYB103K50
C	5198,5200,5275,5279		CEHAZL101M25
C	5205-5208,5211,5212		CFTNA334J50
C	5209,5210,5216,5217		CKSRYB103K50
C	5213,5214,5300-5303		CCSRCH101J50
C	5218,5230,5240,5243		CEHAZL100M50
C	5219,5220,5318,5319		CCH1354
C	5224,5225,5323,5324		CKSRYB272K50
C	5228,5231-5233,5236		CKSRYB104K16
C	5229,5234,5241,5242		CKSRYB103K50
C	5235,5320,5322,5334		CEHAZL101M10
C	5237,5244-5247,5321		CKSRYB104K16
C	5252,5253		CCSRCH181J50
C	5254,5257		CFTLA103J50
C	5258,5259		CCSRCH471J50
C	5262,5263		CQMA223J50
C	5264,5265		CCSRCH331J50
C	5266,5267		CEHAZL471M16
C	5268,5271		CQMA124J50
C	5272,5277,5314,5317		CEHAZL100M50
C	5273,5274,5276,5278		CKSRYB103K50
C	5280,5283		CQMA333J50
C	5281,5282		CQMA222J50
C	5284,5286,5288,5290		CCH1559
C	5292,5295,5297,5299		CEHAZL101M25
C	5293,5294,5296,5298		CKSRYB103K50
C	5304-5307,5310,5311		CFTNA334J50
C	5308,5309,5315,5316		CKSRYB103K50
C	5312,5313		CCSRCH101J50
C	5326,5327,5330-5332		CKSRYB104K16
C	5328,5333,5340,5341		CKSRYB103K50
C	5329,5339,5342		CEHAZL100M50
C	5335,5336,5343-5347		CKSRYB104K16
C	5337,5338		CCSRCH330J50
C	5348-5351		CEHAZL101M25
C	5352,5354,5355		CKSRYB104K16

C VIO1 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
D	7701-7716		UDZS6R2(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
JA	7701,7703	JACK	VKB1123
JA	7702,7704	SOCKET	AKP7050
JA	7708,7709	COMB.JACK(S+1P)	AKB7159
JA	7710	BNC CONNECTOR	DKN1267
JA	7711	BNC CONNECTOR	DKN1268
CN	7705	17P CONNECTOR	VKN1248
CN	7706	34P CONNECTOR	VKN2004
CN	7707	CONNECTOR	VKN1200

RESISTORS

Mark	No.	Description	Part No.
R	7741,7742		RS1/16S103J
	Other Resistors		RS1/16S####F

CAPACITORS

Mark	No.	Description	Part No.
C	7727,7728,7730,7732		CEAT102M6R3
C	7729,7731		CKSRYB104K16
C	7733,7734		CEAT471M6R3
C	7735,7736		CEAT102M6R3

D MJCK ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
L	8701,8702	INDUCTOR	CTF1409
F	8701,8702	FERRITE CORE	VTF1093
JA	8701	CANON CONNECTOR	DKB1068
KN	8702	WRAPPING TERMINAL	VNF1084
CN	8701	CONNECTOR POST	S3B-PH-K-S

CAPACITORS

Mark	No.	Description	Part No.
C	8701,8702		CCSRCH221J50
C	8703,8704		CFTLA103J50
C	8705-8708		CCSRCH102J50

E VIN3 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
JA	8201	JACK	VKB1123
CN	8202	CONNECTOR	S6B-PH-K-S

F VIO2 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
D	8001-8008		UDZS6R2(B)

MISCELLANEOUS

Mark	No.	Description	Part No.
JA	8001,8003	JACK	VKB1123
JA	8002,8004	SOCKET	AKP7050
CN	8005	17P CONNECTOR	VKN1248

G MAIN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
IC	1001		D610A003BPYPA225
IC	1003		K4S641632K-UC75
IC	1006,1007,1074		TC74VHC541FTS1
IC	1008		AX51902A
IC	1009,1010,1044-1047		K4S281632K-UC75
IC	1012,1015,1017,1026		TC7SH08FUS1
⚠ IC	1013,1076		LTC3406B-2ES5
⚠ IC	1016,1019		TPS54380PWP
IC	1020,1027,1034,1069		TC74LCX541FTS1
IC	1021,1022		TC7SZU04FU
IC	1023,1031		TC7SHU04FUS1
IC	1024,1025,1028,1029		TC7SZ08FU
IC	1030		TC7WH74FU
IC	1032,1054,1056,1060		TC7SH08FUS1
IC	1035		TE4300PF
IC	1036		TDOTG242-0F0C8
IC	1037		R5523N001B
IC	1038,1039		ADV7172KSTZ
IC	1040,1041		LA73054
IC	1043		TMS320DM642AZNZ6
⚠ IC	1048,1049,1052,1053		ADV7180BSTZ
IC	1050,1051		TC7W53FU
IC	1055		XC3S50-4TQG144C

Mark	No.	Description	Part No.
	IC 1057		K4H511638D-UCB3
	IC 1058		EP2C20F484C8N
⚠	IC 1059		NJU7013F
	IC 1061,1085-1087		TC7SH08FUS1
	IC 1062,1066		K4S281632K-UC75
	IC 1063-1065		TC7SZ08FU
	IC 1068		TC74LCX16245AFT
	IC 1070		R5S72060W200FPV
	IC 1071		TC74LCX541FTS1
⚠	IC 1075		PQ035ZN01ZPH
⚠	IC 1077		LTC3414EFE
	IC 1081		TC7SH04FUS1
	IC 1083,1084		TC7WH157FU
	IC 1088		TC7WH34FU
	IC 1100		DYW1764
	IC 1101		DYW1765
	IC 1102-1110		TC7SH08FUS1
	Q 1003-1011		2SA1576A
	Q 1012,1013		DTA143EUA
	Q 1014,1015		DTC124EUA

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 1010,1011	POWER INDUCTOR(2.5U)	DTL1163
	L 1017	CHIP COIL	LCTAW1R5J2520
	L 1018-1020,1023	INDUCTOR	CTF1305
	L 1021,1022	COIL	ATH7015
	L 1027-1030,1034,1601	INDUCTOR	CTF1305
	L 1603-1614,1620-1623	INDUCTOR	CTF1305
	L 1625	INDUCTOR	CTF1305
	L 1629	INDUCTOR	ATH1208
	L 1641,1644	POWER INDUCTOR(2.5U)	DTL1163
	L 1645-1648	INDUCTOR	CTF1386
	F 1001-1003,1012,1013	EMI FILTER	CCG1160
	F 1015,1016,1100,1101	EMI FILTER	CCG1160
	F 1600-1611	EMI FILTER	CCG1160
	F 1616,1618,1619,1628	INDUCTOR	CTF1661
	F 1630	INDUCTOR	CTF1661
	KN 1001-1008	EARTH METAL FITTING	VNF1109
	X 1001	CRYSTAL RESONATOR(28.63636MHz)	ASS7067
	X 1002	CRYSTAL RESONATOR(65.975MHz)	DSS1144
	X 1003	CRYSTAL RESONATOR(27.000MHz)	VSS1159
	X 1004	CRYSTAL RESONATOR(24.5760MHz)	ASS7025
	X 1005	CRYSTAL RESONATOR(50MHz)	DSS1162
	CN 1001,1012	30P CONNECTOR	VKN1434
	CN 1002	12P CONNECTOR	VKN1416
	CN 1003,1010	34P CONNECTOR	VKN1438
	CN 1004	40P CONNECTOR	VKN1444
	CN 1006	CONNECTOR	AKM1276
	CN 1007	CONNECTOR	AKM1275
	CN 1008	13P CONNECTOR	VKN1417
	CN 1009	24P CONNECTOR	VKN1428
	CN 1015	17P CONNECTOR	VKN1421
	CN 1016	CONNECTOR	AKM1277
	CN 1017	CONNECTOR	AKM1280

RESISTORS

Mark	No.	Description	Part No.
	R 1033-1035,1103,1104		RAB4C560J
	R 1036,1037,1304		RAB4C220J
	R 1062,1071-1073,1385		RAB4C101J
	R 1065-1068,1083,1086		RAB4C680J
	R 1081,1084,1087,1091		RAB4C473J
	R 1090,1092,1094-1099		RAB4C470J
	R 1093		RAB4C473J
	R 1100,1101,1105		RAB4C0R0J
	R 1115,1116,1132,1133		RS1/16S1002D
	R 1117,1134		RS1/16S7501D
	R 1118,1140,1602,1609		RS1/16S39R0D
	R 1119,1141		RS1/16S68R0D
	R 1120,1142		RS1/16S2001D
	R 1126,1758		RS1/16S1503D
	R 1127		RS1/16S4702D
	R 1136,1156		RS1/16S7502D
	R 1137,1153		RS1/16S1002D
	R 1138,1154		RS1/16S2402D
	R 1139,1155		RS1/16S4701D
	R 1143,1746,1786,1787		RS1/10S0R0J
	R 1163,1328,1332,1333		RAB4C330J
	R 1198,1207		RAB4C223J
	R 1245-1248		RS1/16S6800F
	R 1249-1252		RS1/16S5101F
	R 1253,1255-1258		RS1/16S1500F
	R 1264-1267		RS1/16S1500F
	R 1306-1308,1399-1401		RAB4C220J
	R 1313-1320,1323,1324		RAB4C470J
	R 1326,1327,1330,1331		RAB4C470J
	R 1334,1335,1412		RAB4C470J
	R 1340-1343,1475,1480		RAB4C330J
	R 1349-1352,1366,1367		RAB4C560J
	R 1369,1370		RAB4C560J
	R 1386,1770		RAB4C101J
	R 1403-1407,1409		RAB4C220J
	R 1430,1431		RS1/16S1003D
	R 1453-1461,1463-1466		RAB4C220J
	R 1468-1474,1485,1487		RAB4C470J
	R 1479,1693		RAB4C472J
	R 1488		RAB4C330J
	R 1493,1515,1518,1679		RAB4C470J
	R 1502		RAB4C104J
	R 1603,1604,1606-1608		RS1/16S36R0D
	R 1610,1612,1613,1617		RS1/16S39R0D
	R 1614-1616,1618		RS1/16S36R0D
	R 1619-1621,1626-1629		RS1/16S39R0D
	R 1622-1625,1630,1631		RS1/16S36R0D
	R 1633-1635		RS1/16S36R0D
	R 1636-1638,1640,1641		RS1/16S39R0D
	R 1680		RAB4C470J
	R 1698		RS1/16S1201D
	R 1699		RS1/16S1301D
	R 1714		RS1/16S3003D
	R 1715		RS1/16S1502D
	R 1716		RS1/16S1103D
	R 1718		RS1/16S2003D
	R 1767		RS1/16S2403D
	R 1768		RS1/16S1203F
	R 1788-1791		RAB4C220J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 1001,1009,1062,1069		CKSQYB106K6R3
	C 1002,1004-1008		CKSRYB104K16
	C 1003,1098,1099,1220		CKSRYB103K50

Mark	No.	Description	Part No.
	C 1010-1024,1026		CKSRYB104K16
	C 1028-1061,1064,1067		CKSRYB104K16
	C 1063,1065,1066,1102		CKSRYB105K10
	C 1068,1072,1073,1096		CKSRYB104K16
	C 1077,1149,1169,1210		CEHVKW101M6R3
	C 1079,1131,1136,1689		BCG1059
	C 1080,1082,1084,1086		CKSSYB104K10
	C 1081,1083,1085,1087		CKSSYB103K16
	C 1088,1090,1092,1094		CKSSYB104K10
	C 1089,1091,1093,1095		CKSSYB103K16
	C 1097,1100,1114,1151		CKSQYB106K6R3
	C 1101,1103,1104,1108		CKSRYB104K16
	C 1105,1109,1116,1119		CKSRYB105K10
	C 1110,1111,1115,1117		CKSRYB104K16
	C 1118,1122,1124,1125		CKSRYB104K16
	C 1123,1152,1171,1173		CKSRYB105K10
	C 1135,1142,1145,1146		CKSRYB104K16
	C 1138,1160		CKSRYB332K50
	C 1140,1147,1161,1705		ACH7195
	C 1141,1162,1649-1655		CKSRYB471K50
	C 1143,1163		CKSRYB822K50
	C 1144,1164		CKSRYB472K50
	C 1150,1158,1165-1167		CKSRYB104K16
	C 1170,1207,1211,1218		CKSQYB106K6R3
	C 1174,1189		CCSRCH5R0D50
	C 1175,1188		CCSRCH7R0D50
	C 1176,1181,1187		CKSRYB105K10
	C 1182,1191		CCSRCH120J50
	C 1190		CCSRCH102J50
	C 1192-1197,1201,1202		CKSRYB105K10
	C 1198		CCSRCH180J50
	C 1199,1204,1206,1224		CKSRYB104K16
	C 1200		CCSRCH150J50
	C 1205,1208,1209		CKSRYB105K10
	C 1212-1217,1219		CKSRYB105K10
	C 1221-1223,1226-1229		CKSRYB105K10
	C 1225		CKSRYB102K50
	C 1230		CKSQYB225K10
	C 1231,1240,1759		CEHVKW101M6R3
	C 1241,1242,1283-1286		CEHVKW470M6R3
	C 1243-1246,1249-1282		CKSRYB104K16
	C 1247,1248,1296,1367		CKSRYB103K50
	C 1287-1294,1301,1304		CKSRYB105K10
	C 1297,1298,1361,1362		CEHVKW470M6R3
	C 1299,1308,1315,1324		CKSQYB106K6R3
	C 1300,1302,1303,1306		CKSRYB104K16
	C 1305,1310,1313,1314		CKSRYB105K10
	C 1307,1309,1311,1312		CKSRYB104K16
	C 1316,1318,1329,1332		CKSRYB105K10
	C 1319,1320,1327,1330		CKSRYB104K16
	C 1321-1323,1326,1328		CKSSYB104K10
	C 1325,1347,1506,1528		CKSQYB106K6R3
	C 1331,1338,1339,1349		CKSRYB104K16
	C 1333,1350,1353,1354		CKSRYB105K10
	C 1334-1337,1477,1487		CKSSYB104K10
	C 1341,1343,1345,1348		CKSSYB103K16
	C 1351,1352,1355,1356		CKSRYB104K16
	C 1357-1360,1363-1366		CKSRYB105K10
	C 1368,1371,1372,1417		CKSRYB103K50
	C 1369,1370,1419,1420		CKSRYB823K25
	C 1373,1374,1378,1381		CKSRYB105K10
	C 1375,1376,1409,1410		CEHVKW470M6R3
	C 1379,1380,1382-1396		CKSRYB104K16
	C 1404-1407,1413-1416		CKSRYB105K10
	C 1418,1421,1423,1678		CKSRYB103K50
	C 1422,1424,1427,1430		CKSRYB105K10
	C 1425,1426,1447,1454		CEHVKW470M6R3
	C 1428,1431-1444		CKSRYB104K16
	C 1448-1453,1455-1458		CKSRYB104K16
	C 1459,1485,1503,1507		CEHVKW470M6R3
	C 1460-1464,1466-1475		CKSRYB104K16
	C 1476,1478,1482-1484		CKSRYB105K10
	C 1479-1481,1486		CKSRYB104K16
	C 1488,1490,1537,1538		CKSRYB105K10
	C 1489,1495,1497,1498		CKSSYB104K10
	C 1491-1494,1532-1534		CKSRYB104K16
	C 1500-1502,1504,1505		CKSSYB104K10
	C 1508-1514,1517-1524		CKSSYB104K10
	C 1529,1531,1604-1619		CKSSYB104K10
	C 1530,1539,1563,1647		CKSQYB106K6R3
	C 1540,1542,1543,1546		CKSRYB104K16
	C 1541,1544,1545,1548		CKSRYB105K10
	C 1547,1551,1553-1562		CKSRYB104K16
	C 1549,1656,1755		CEHVKW100M16
	C 1550,1552,1594		CKSRYB105K10
	C 1564,1568,1620,1685		CEHVKW470M6R3
	C 1565-1567,1569-1593		CKSRYB104K16
	C 1598,1601-1603,1648		CKSRYB104K16
	C 1621-1646		CKSSYB104K10
	C 1658-1677,1679,1680		CKSRYB104K16
	C 1686,1726,1727,1758		CKSRYB104K16
	C 1687,1770,1771		CEHVKW470M6R3
	C 1688,1725,1789,1790		CKSQYB106K6R3
	C 1693,1707,1769		CCSRCH220J50
	C 1695,1700,1701		BCG1059
	C 1703		CCSRCH471J50
	C 1704		CCSRCH101J50
	C 1706		BCG1050
	C 1761		CKSRYB471K50
	C 1772,1773,1779-1784		CKSRYB104K16
	C 1785		CKSRYB103K50
	C 1786		CKSSYB103K16
	C 1791-1799		CKSRYB104K16

H SCPU ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC 3001,3004-3009,3011		TC7SH08FUS1
	IC 3002,3003		TC74VHC541FTS1
	IC 3010		DYW1766
	IC 3012-3014,3017		TC74HC4052AFT
⚠	IC 3015		BA033FP
	IC 3016		NJM2903M
	IC 3018,3019		TC74HC238AF
	IC 3020-3023		TC74HC273AF
	Q 3001-3003,3005-3007		DTC143EUA
	Q 3004,3008		2SB1188

Mark	No.	Description	Part No.
Q	3009-3011		DTC143EUA
Q	3012,3013		DTC124EUA
D	3001-3003		1SS355
D	3008,3009		RB060L-40

MISCELLANEOUS

Mark	No.	Description	Part No.
X	3001	CERAMIC RESONATOR(20MHz)	VSS1186
CN	3001	CONNECTOR 40PIN	DKN1481
CN	3002	CONNECTOR	CKS5075
CN	3004	6P JUMPER CONNECTOR	52147-0610
CN	3005	CONNECTOR POST	S8B-EH
CN	3006	CONNECTOR 30PIN	DKN1480
CN	3007,3011	CONNECTOR 36P	52492-3620
CN	3008,3010	24P CONNECTOR	VKN1428
CN	3009	CONNECTOR POST	S3B-PH-K-S
CN	3012	CONNECTOR 24P	52492-2420
CN	3013	CONNECTOR 28P	52492-2820
CN	3014	CONNECTOR	VKN1945

RESISTORS

Mark	No.	Description	Part No.
R	3056,3057		RAB4C101J
R	3118		RS1/10S0R0J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
C	3001-3009,3018-3021		CKSRYB104K16
C	3017,3024,3027,3039		CEHAR101M10
C	3022		CKSRYB105K10
C	3023,3026,3028,3037		CKSRYB104K16
C	3025,3040,3057,3060		CKSRYB103K50
C	3029-3036		CCSRCH471J50
C	3038,3042-3045		CKSRYB104K16
C	3041		CEHAR330M25
C	3046,3050,3053,3061		CEHAR101M10
C	3047-3049,3051,3052		CKSRYB104K16
C	3054-3056,3058,3059		CKSRYB104K16
C	3062-3064,3066,3068		CKSRYB104K16
C	3065,3067		CKSRYB103K50
C	3069,3072,3073,3077		CKSRYB104K16
C	3070,3071,3074-3076		CEHAR101M10
C	3078		CKSRYB104K16

I CTL1 ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
Q	6801-6803,6807-6809		DTC143EUA
Q	6804-6806,6810		2SB1188
Q	6811-6832		DTC143EUA
D	6801-6804,6818-6821		1SS355
D	6805-6808		SLI-343YYW(RST)
D	6809,6866-6869		SLI-343URCW(RST)
D	6810-6817,6822,6825		UW3804(ABCDEF)
D	6823,6824,6826-6828		1SS355
D	6829,6830,6832,6833		SLR343BC4T(JKLM)
D	6831,6834,6837,6840		1SS355
D	6835,6836,6838,6839		SLR343BC4T(JKLM)
D	6841-6846,6850-6853		SLR343BC4T(JKLM)
D	6847-6849,6854,6857		1SS355
D	6855,6856,6858,6859		UW3804(ABCDEF)
D	6860,6865,6870		1SS355
D	6861-6864		UW3804(ABCDEF)

MISCELLANEOUS

Mark	No.	Description	Part No.
VR	6801	VARIABLE RESISTOR	DCS1100
VR	6802,6807,6816	ROTARY VR	DCS1086
VR	6803-6806	VARIABLE RESISTOR	DCS1100
VR	6808-6810	VARIABLE RESISTOR	DCS1100
VR	6811,6812	ROTARY VR	DCS1072
VR	6813-6815	VARIABLE RESISTOR	DCS1100
S	6801	LEVER SWITCH	DSK1033
S	6802	SLIDE SWITCH	DSH1057
S	6803,6807,6808	TACT SWITCH	DSG1079
S	6804,6805	SLIDE SWITCH	DSH1058
S	6806,6814	LEVER SWITCH	DSK1026
S	6809	ROTARY SW	DSG1110
S	6810-6812	TACT SWITCH	DSG1079
S	6813	ROTARY SW	DSG1109
CN	6801	CONNECTOR 28P	52492-2820
CN	6802	CONNECTOR 36P	52492-3620
CN	6803,6804	CONNECTOR 5P	52492-0520

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
C	6801,6803,6804,6808		CEAL101M10
C	6802,6805-6807		CKSRYB104K16
C	6809-6832		CKSRYB104K16

J CTL2A ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
Q	7101-7104,7109		DTC143EUA
Q	7105-7108,7110		2SB1188
Q	7111-7131		DTC143EUA
D	7101-7106,7138,7139		1SS355
D	7107-7121,7165-7168		UW3804(ABCDEF)
D	7122-7137,7140-7147		SLR343BC4T(JKLM)
D	7148,7149,7158,7159		1SS355
D	7150-7157,7160-7163		SLR343BC4T(JKLM)
D	7164,7169,7174,7175		1SS355
D	7170-7173,7176-7179		UW3804(ABCDEF)
D	7180,7185		1SS355
D	7181-7184		UW3804(ABCDEF)
D	7186-7193		SLI-343URCW(RST)

MISCELLANEOUS

Mark	No.	Description	Part No.
VR	7101	VARIABLE RESISTOR	DCS1100
VR	7102,7107,7112,7114	ROTARY VR	DCS1086
VR	7103-7106	VARIABLE RESISTOR	DCS1100
VR	7108-7111	VARIABLE RESISTOR	DCS1100
VR	7113	VARIABLE RESISTOR	DCS1100
S	7101	LEVER SWITCH	DSK1026
S	7102	LEVER SWITCH	DSK1033
S	7103,7106,7109	SLIDE SWITCH	DSH1058
S	7104,7107,7110	TACT SWITCH	DSG1079
S	7105	ROTARY SW	DSG1109
S	7108	ROTARY SW	DSG1110
S	7111	SLIDE SWITCH	DSH1066
CN	7101	CONNECTOR 36P	52492-3620

Mark	No.	Description	Part No.
	CN 7102	CONNECTOR 24P	52492-2420
	CN 7103,7104	CONNECTOR 5P	52492-0520
	CN 7105	CONNECTOR 6P	52492-0620

RESISTORS

Mark	No.	Description	Part No.
	R 7105-7108,7114		RS1/16S3900D
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 7101,7103,7105,7108		CEAL101M10
	C 7102,7104,7106,7107		CKSRYB104K16
	C 7109-7131		CKSRYB104K16

K CTL2B ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	Q 8351		DTC143EUA
	D 8351,8352		1SS355
	D 8353		TLGE68DG

MISCELLANEOUS

Mark	No.	Description	Part No.
	S 8351	SLIDE SWITCH	DSH1058
	CN 8351	CONNECTOR 6P	52492-0620

RESISTORS

Mark	No.	Description	Part No.
	All Resistors		RS1/16S###J

L CFD1 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	VR 8801	VARIABLE RESISTOR	DCV1020
	CN 8801	CONNECTOR 5P	52492-0520

M CFD2 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	VR 8851	VARIABLE RESISTOR	DCV1020
	CN 8851	CONNECTOR 5P	52492-0520

N CFD3 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	VR 8901	VARIABLE RESISTOR	DCV1020
	CN 8901	CONNECTOR 5P	52492-0520

O CFD4 ASSY

MISCELLANEOUS

Mark	No.	Description	Part No.
	VR 8951	VARIABLE RESISTOR	DCV1020
	CN 8951	CONNECTOR 5P	52492-0520

P INVT ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC 6001		TA78L05F
⚠	IC 6002		OZ964ISN
	Q 6001		DTC123EU
⚠	Q 6002		2SA1615-ZS1
⚠	Q 6003-6006		TS8M1
	Q 6007,6008		2SC4617
	Q 6009		2SA1774
	Q 6010		UM6K1N
	Q 6011-6014,6016,6018		DTC124EUA
	Q 6015,6017,6019,6021		DTA124EUA
	Q 6020,6022		DTC124EUA
	D 6001,6002		HZU6R2(B3)
	D 6003		UDZS6R2(B)
	D 6004-6006,6011-6031		1SS355
	D 6007-6010		MC2850-11

MISCELLANEOUS

Mark	No.	Description	Part No.
	L 6001	CHOKE COIL	CTH1349
	VR 6001	SEMIFIXED-RESISTOR	CCP1443
⚠	T 6001,6002	TRANSFORMER	CTT1136
	CN 6001	22P CONNECTOR	VKN1282
	CN 6002,6003	24P CONNECTOR	VKN1814
	CN 6004	11P CONNECTOR	VKN1303
	CN 6005	6PJUMPER CONNECTOR	52151-0610
	CN 6006	CONNECTOR	CKS3192
	CN 6007	CONNECTOR	CKS4428
	CN 6008,6009	04P CONNECTOR	9610S-04B

RESISTORS

Mark	No.	Description	Part No.
	R 6004,6005,6007,6008		RS1/4S221J
	R 6024		RN1/16SE1102D
	R 6034-6037		RS1/4S221J
	Other Resistors		RS1/16S###J

CAPACITORS

Mark	No.	Description	Part No.
	C 6001,6003,6017		CEHAR101M10
	C 6002,6004,6020,6023		CKSRYB104K16
	C 6005,6006,6008-6011		CCG1223
	C 6007		CEHAT101M25
	C 6012,6019,6030		CKSRYB103K50
	C 6013,6014		CCG1223
	C 6015,6022		CKSRYB105K10
	C 6016		CKSRYB183K50
	C 6018		CKSRYB474K10
	C 6021		CKSRYB334K10
⚠	C 6026,6028		CCG1194
	C 6027,6029		CKSRYB273K25
	C 6031,6032		CKSRYB473K50
	C 6033		CCSRCH102J50
	C 6034-6041		CKSRYB102K50
	C 6042-6050		CKSRYB104K16

Q CTL3R ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	D 8501,8502		UW3804(ABCDEF)
	D 8503		1SS355
	D 8504,8505		SLR343BC4T(JKLM)
	D 8506,8507		SLI-343YYW(RST)

MISCELLANEOUS

Mark	No.	Description	Part No.
	VR 8501	VARIABLE RESISTOR	ACS7026
	S 8501-8503	TACT SWITCH	DSG1079
	S 8504,8505	ROTARY ENCODER	DSX1073

Mark	No.	Description	Part No.
S	8506	ROTARY ENCODER	DSX1069
CN	8501	22P CONNECTOR	VKN1282

RESISTORS

		All Resistors	RS1/16S###J

CAPACITORS

C	8501-8508		CKSRYB103K50
C	8509		CKSRYB104K16

R CTL3LB ASSY

SEMICONDUCTORS

D	8451,8453		SLR343BC4T(JKLM)
D	8452,8455,8456		1SS355
D	8454		SLI-343URCW(RST)

MISCELLANEOUS

S	8451-8453	TACT SWITCH	DSG1079
CN	8451	11P CONNECTOR	VKN1271
CN	8452	CONNECTOR 6P	52492-0620

RESISTORS

		All Resistors	RS1/16S###J

S CTL3LA ASSY

SEMICONDUCTORS

D	8401,8404		1SS355
D	8402,8403		SLI-343URCW(RST)

MISCELLANEOUS

S	8401,8402	TACT SWITCH	DSG1079
CN	8401	CONNECTOR 6P	52492-0620

RESISTORS

		All Resistors	RS1/16S###J

T CRFD ASSY

MISCELLANEOUS

VR	8751	VARIABLE RESISTOR	DCV1006
CN	8751	CONNECTOR POST	S3B-PH-K-S

U DIO2 ASSY

SEMICONDUCTORS

D	8251-8254		UDZS6R2(B)

MISCELLANEOUS

JA	8251	1P PIN JACK	PKB1036
JA	8252,8253	BNC CONNECTOR	DKN1267
CN	8251	5P CONNECTOR	VKN1374

RESISTORS

		All Resistors	RS1/16S####F

CAPACITORS

C	8251		CCSRCH221J50
C	8253		CKSRYB103K50

Mark	No.	Description	Part No.

V DIO1 ASSY

SEMICONDUCTORS

IC	6501,6502		TC7WU04FU
IC	6503,6504		AK4117VF
IC	6505,6506,6517		AD1895AYRS
IC	6507-6510,6518,6519		TC7SH08FUS1
IC	6511,6512		NJM2561F1
IC	6514		TC74HCU04AF
IC	6515		TC7SET08FUS1
IC	6516		AK4114VQ
Q	6502,6503		2SC4081
D	6501-6504		UDZS6R2(B)

MISCELLANEOUS

L	6501	FERRITE CORE	VTF1093
JA	6501,6502	BNC CONNECTOR	DKN1267
JA	6503,6504	1P PIN JACK	PKB1036
KN	6501	SCREW PLATE	VNE1948
S	6501	SLIDE SWITCH	DSH1025
T	6501	COIL	PTL1003
CN	6501	CONNECTOR 30PIN	DKN1480
CN	6502	5P CONNECTOR	VKN1374
CN	6503	4P JUMPER CONNECTOR	52147-0410

RESISTORS

R	6501,6525,6526,6559		RS1/16S75R0F
R	6547		RN1/16SE1802D
R	6553-6556		RS1/10S0R0J
		Other Resistors	RS1/16S###J

CAPACITORS

C	6502		CCSRCH221J50
C	6503,6510,6511		CKSRYB103K50
C	6504,6505		CCSRCH470J50
C	6506,6507		CCSRCH220J50
C	6508,6509,6513,6514		CKSRYB104K16
C	6512,6515,6525,6527		CEAT100M50
C	6516,6517,6522-6524		CKSRYB104K16
C	6518-6521,6566,6572		CKSRYB103K50
C	6526,6529-6532,6534		CKSRYB104K16
C	6533,6535,6543		CEAT470M16
C	6536,6542,6547,6549		CKSRYB104K16
C	6537,6539,6546,6548		CEAT101M16
C	6538,6540		CEAT330M16
C	6544,6545		CEAL4R7M16
C	6550		CEAT101M16
C	6552-6554,6557,6559		CKSRYB104K16
C	6560,6563,6569		CEAT100M50
C	6561		CKSRYB474K10
C	6562,6564,6565,6567		CKSRYB104K16
C	6568,6570,6571		CKSRYB104K16

W MIDI ASSY

SEMICONDUCTORS

IC	9201		TC7S00FU
Q	9201		DTC124EUA
D	9201		NNCD6.2MF
D	9202,9203		1SS355

Mark	No.	Description	Part No.
MISCELLANEOUS			
J	0	JUMPER WIRE	D20PYY0405E
JA	9201	CONNECTOR	DKN1188
	0	SHIELD CASE(MIDI)	DNH2736
JH	9201	4P CABLE HOLDER	51048-0400
RESISTORS			
R	9201,9202		RS1/10S0R0J
Other Resistors			RD1/2VM###J
CAPACITORS			
C	9201		CKSRYB103K50
C	9202,9206		CKSRYB104K16
C	9205		CEAT100M50

X SDIO ASSY

SEMICONDUCTORS			
D	8302-8309		DAN217
MISCELLANEOUS			
JA	8301	SDCARD SLOTCONNECTOR	DKP3748
CN	8301	13P CONNECTOR	VKN1305
RESISTORS			
All Resistors			RS1/16S###J
CAPACITORS			
C	8301,8304		CKSRYB104K16
C	8305		CEHAR101M10

Y USB1 ASSY

SEMICONDUCTORS			
D	8553		UDZS5R6(B)
D	8554		NNCD6.2MF
MISCELLANEOUS			
JA	8551	USB CONNECTOR	DKN1237
CN	8551	CONNECTOR	AKM1276
RESISTORS			
All Resistors			RS1/16S###J
MISCELLANEOUS			
JH	8551	PCB BINDER	VEF1040
CAPACITORS			
C	8551		CEJQ101M10
C	8552		CKSRYB104K16
C	8553,8554		CCSRCH470J50
C	8555		CFTLA103J50

Z USB2 ASSY

SEMICONDUCTORS			
D	8601		UDZS5R6(B)
D	8602		NNCD6.2MF
MISCELLANEOUS			
JA	8601	USB CONNECTOR	VKB1226
KN	8601	WRAPPING TERMINAL	VNF1084

Mark	No.	Description	Part No.
CN	8601	CONNECTOR	AKM1290
RESISTORS			
All Resistors			RS1/16S###J
CAPACITORS			
C	8601		CEJQ101M10
C	8602		CKSRYB104K16
C	8603,8604		CCSRCH470J50
C	8605		CFTLA103J50

AA HAMP ASSY

SEMICONDUCTORS			
IC	7404		AK4382AVT
⚠ IC	7405		TA78L12F
IC	7406		NE5532AD
IC	7407		NJM2068M
Q	7401,7403		2SD1859X
Q	7402,7404		2SB1238X
Q	7405		2SC2412K
D	7401-7411		1SS355
MISCELLANEOUS			
RY	7401	RELAY	VSR1008
CN	7401	CONNECTOR	CKS4999
CN	7403	CONNECTOR	B4B-PH-K-S
CN	7404	CONNECTOR POST	B2B-PH-K-S
RESISTORS			
R	7408-7411		RN1/16SE4701D
R	7412,7413,7418-7421		RN1/16SE1302D
R	7414-7417		RN1/16SE3301D
R	7422,7423,7426,7427		RN1/16SE2701D
R	7424,7425		RN1/16SE1302D
R	7436,7438		RN1/16SE1202D
R	7437,7439		RN1/16SE2201D
R	7440-7443		RD1/2VM122J
R	7444-7447		RS2LMF270J
R	7453,7454		RD1/2VM221J
Other Resistors			RS1/16S###J
CAPACITORS			
C	7404,7405,7410,7411		CKSRYB103K50
C	7406,7413,7414		CKSRYB104K16
C	7407,7408,7415		CEHAZL101M25
C	7409,7412		CEHAZL101M10
C	7416,7417		CQMA332J50
C	7418,7419		CCSRCH122J50
C	7420-7422,7424		CCSRCH121J50
C	7423,7425,7437		CKSRYB103K50
C	7428,7429		CCH1559
C	7430,7431		CEAT220M50
C	7433,7435		CCSRCH471J50
C	7436,7440,7441		CEAT221M25
C	7438,7439		CCSRCH220J50

AB HJCK ASSY

MISCELLANEOUS			
F	8651-8653	FERRITE CORE	VTF1093

Mark	No.	Description	Part No.
	JA 8651	HEADPHONE JACK	DKN1281
	CN 8651	CONNECTOR	B4B-PH-K-S

CAPACITORS

	C 8651,8652		CKSRYB104K16

AC ACSW ASSY

MISCELLANEOUS

⚠	S 9101	SWITCH	DSA1033
⚠	CN 9101	CONNECTOR2P	2-178496-4
⚠	9101	CONNECTOR ASS'Y	DKP3799

CAPACITORS

⚠	C 9101		ACG7033

AD PDIV ASSY

MISCELLANEOUS

	KN 9151	WRAPPING TERMINAL	VNF1084
	CN 9151	CONNECTOR POST	B5B-PH-K-S
	CN 9152	CONNECTOR	B15B-PH-K-S
	CN 9153	CONNECTOR	B7B-EH
	CN 9154	5P TOP POST	B5B-EH
	CN 9155	CONNECTOR	B9B-PH-K-S
	CN 9156	8P TOP POST	B8B-EH
	CN 9157	2P TOP POST	B2B-EH

RESISTORS

	All Resistors		RS1/10S###J

MISCELLANEOUS

	JH 9151	9P CABLE HOLDER	51048-0900
⚠	P 9153,9194	PROTECTOR(200MA)	AEK7023
⚠	P 9157	PROTECTOR(1.25A)	AEK7010
⚠	P 9191-9193,9199	PROTECTOR(630MA)	AEK7006
⚠	P 9195	PROTECTOR(1.6A)	AEK7012
⚠	P 9196	PROTECTOR(2A)	AEK7013
⚠	P 9197	PROTECTOR(2.5A)	AEK7014
⚠	P 9198	PROTECTOR(800MA)	AEK7008

CAPACITORS

	C 9151		CEHAT471M25
	C 9152		CEHAT471M10
	C 9153,9154,9162,9166		CKSRYB104K25
	C 9161		CEHAT221M10
	C 9165,9168,9170		CEHAT101M25
	C 9167,9169		CKSRYB104K25

AE REG ASSY

SEMICONDUCTORS

⚠	IC 9501		NJM7815FA
⚠	IC 9502		NJM79M15FA
⚠	IC 9503		NJM78M05FA
	D 9501,9502		RB501V-40

MISCELLANEOUS

	J 0	JUMPER WIRE	D20PYY0910E
	JH 9501	9P CABLE HOLDER	51048-0900

Mark	No.	Description	Part No.

CAPACITORS

	C 9501-9506		CKSRYB104K25

AF ILMR ASSY

SEMICONDUCTORS

	Q 9001,9002		2SC4081
	D 9001,9002		HZU2R0(B)
	D 9003-9008		NESB017-7404

MISCELLANEOUS

	CN 9001,9002	2P TOP POST	B2B-EH

RESISTORS

	R 9001,9003		RS1/16S2401F
	Other Resistors		RS1/16S###J

CAPACITORS

	C 9001,9002		CKSRYB103K50

AG ILML ASSY

SEMICONDUCTORS

	Q 9051,9052		2SC4081
	D 9051,9052		HZU2R0(B)
	D 9053-9058		NESB017-7404

MISCELLANEOUS

	CN 9051	2P TOP POST	B2B-EH

RESISTORS

	R 9051,9053		RS1/16S2401F
	Other Resistors		RS1/16S###J

CAPACITORS

	C 9051,9052		CKSRYB103K50

COVER PCB

MISCELLANEOUS

	0	COVER PCB	DWX2793

POWER SUPPLY UNIT

Power Supply assembly has no service part.